



ST. LOUIS DISTRICT MOBILITY

QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2020/JANUARY/FEBRUARY 2021 | EDITION NO. 14

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Provide Outstanding Customer Service & Deliver Transportation Services of Great Value

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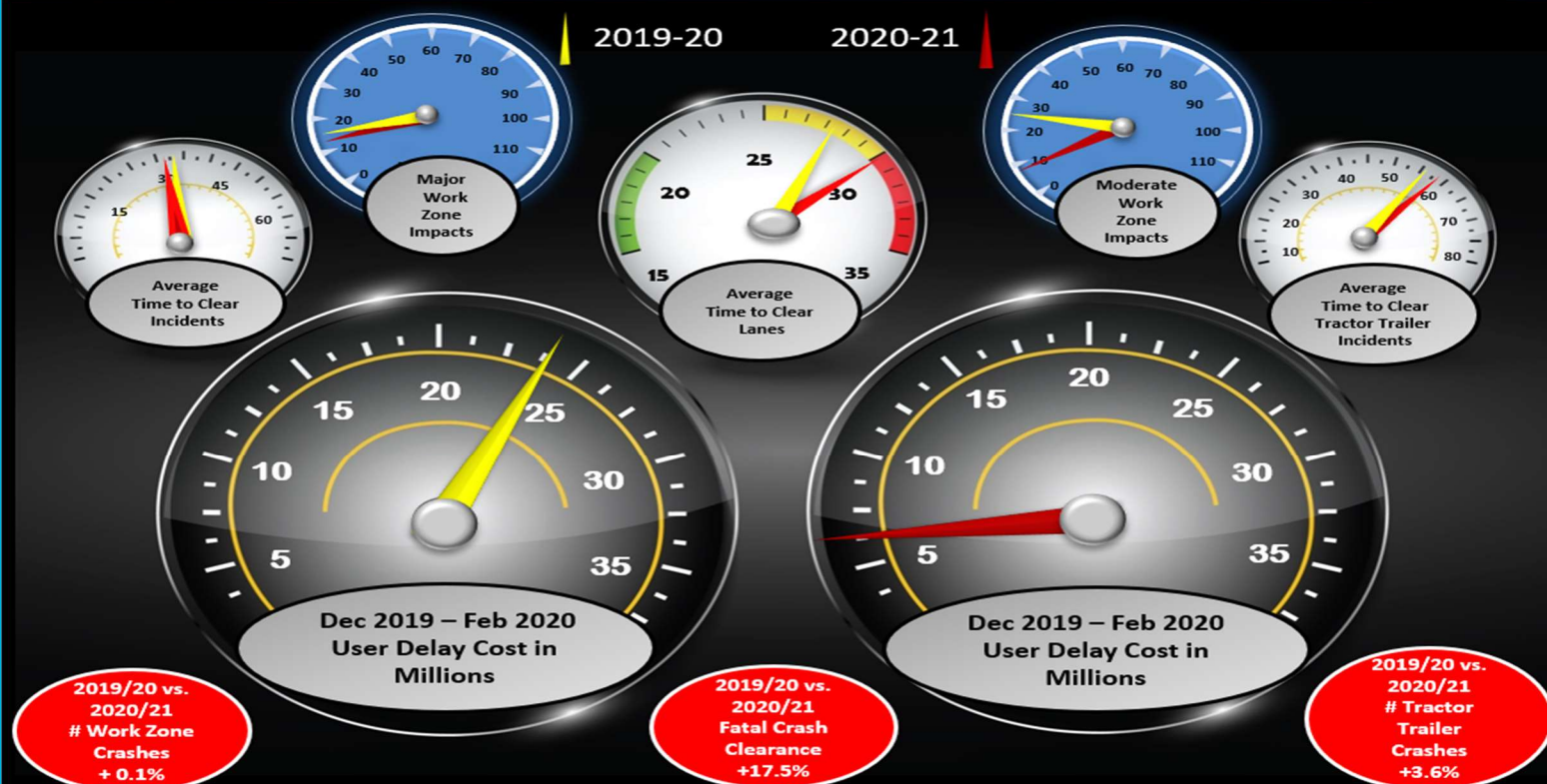
Operate a Reliable and Convenient Transportation System
Use Resources Wisely & Advance Economic Development

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Keep Roads and Bridges in Good Condition

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Keep Customers and Ourselves Safe



User Delay Cost: Passenger Vehicle \$17.91 Commercial Vehicle \$100.49
Sources Texas Transportation Institute & American Transportation Research Institute

Dec 2019 thru Feb 2020 Grand Total and Average

Delay cost:
Total \$23,371,407
Hours of delay
Person-hours: 948,083h 0m
Vehicle hours: 773,945h 18m

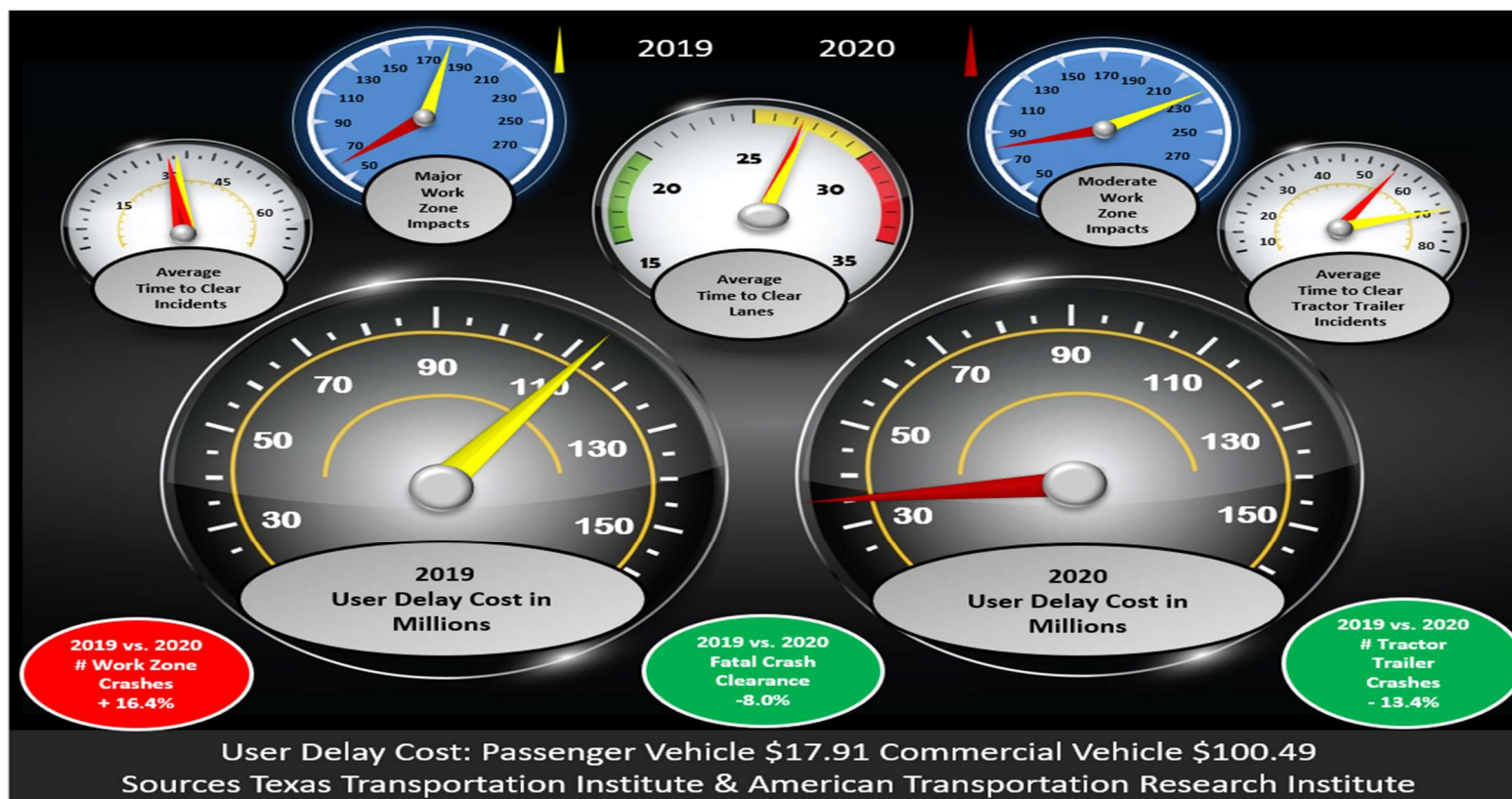
Dec 2020 thru Feb 2021 Grand Total and Average

Delay cost:
Total \$6,690,965
Hours of delay
Person-hours: 271,425h 16m
Vehicle hours: 221,571h 38m



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2019 Grand Total and Average

Delay cost:

Total \$112,997,817

Hours of delay

Person-hours: 4,583,862h 15m

Vehicle hours: 3,741,928h 22m

2020 Grand Total and Average

Delay cost:

Total \$36,126,466

Hours of delay

Person-hours: 1,465,503h 55m

Vehicle hours: 1,196,329h 44m



EXECUTIVE SUMMARY

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Fatal Crash Clearance times increased by 17.5% for the Winter quarter of 2020 compared to the Winter quarter of 2021

The number of tractor trailer crashes increased by 3.6% for the Winter quarter of 2020 compared to the Winter quarter of 2021

Work zone crashes increased by 0.1% for the Winter quarter of 2020 compared to the Winter quarter of 2021

Overall AM and PM Regional Mobility for the 2020 Winter quarter improved compared to 2019

Southbound I-270 at I-64 was the top congested spot this quarter with Westbound I-270 at Washington/Elizabeth ranked second.

ZONING IN

TMS Work Zones:

December 2020: 225

January 2021: 135

February 2021: 110

Work Zone Impact Breakdown:

Red	Major:	12 – (-25%)
Yellow	Moderate:	8 – (-67%)
Green	Minor:	410 – (1%)

WORK ZONE CRASHES: 19

Planned Event

Date: Entire Quarter

Location: I-44 Meramec Bridge Construction

Event Detail: Continued work on the bridge rehab construction. All mitigation efforts were in use.

Unplanned Event

Date: 7-10-2020

Location: St. Charles, Mo Route 370 West of the Discovery Bridge.

Event Detail: Overturned tractor trailer ruptured its gas tank and was engulfed in flames closing all lanes in both directions. This resulted in a 1.2 mile long queue in both directions. The WB lanes were closed ~8 hours, while the EB lanes were closed ~5 and half hours.



EXECUTIVE SUMMARY

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Top 5 Congestion Locations / Dec 2019 – Feb 2020 vs. Dec 2020 – Feb 2021

***Locations ranked on Weighted Total Impact (Raw speed drop weighted by Vehicle Miles Traveled VMT Factor)**

	Congestion Locations 2019/2020	*Weighted Total Impact	Average Queue Length Miles	Average Daily Duration	Total Duration
1	I-270 N @ MO-100/MANCHESTER RD/EXIT 9	56,466,408	5.42	36 m	2 d 6 h 56 m
2	I-270 S @ DOUGHERTY FERRY RD/EXIT 8	37,498,941	5.84	24 m	1 d 13 h 12 m
3	I-170 S @ GALLERIA PKY	37,280,358	1.65	1 h 46 m	6 d 17 h 21 m
4	I-64 E @ BOLAND PL	35,224,635	2.19	1 h 17 m	4 d 22 h 13 m
5	I-64 W @ CLAYTON RD/OAKLAND AVE/EXIT 34	34,198,369	2.23	1 h 24 m	5 d 7 h 58 m

	Congestion Locations 2020/2021	*Weighted Total Impact	Average Queue Length Miles	Average Daily Duration	Total Duration
1	I-270 S @ I-64/US-40/US-61/EXIT 12	29,115,453	3.72	4 m	6 h 46 m
2	I-270 W @ ELIZABETH/WASHINGTON ST/EXIT 28	11,669,786	1.91	38 m	2 d 10 h 6 m
3	I-44 W @ HIGHWAY DR/EXIT 275	9,577,266	1.2	15 m	22 h 55 m
4	I-270 S @ MO-AB/LADUE RD/EXIT 13	8,337,822	2.74	4 m	7 h 3 m
5	I-44 E @ ALLENTON-SIX FLAGS RD/EXIT 261	8,084,207	6.41	3 m	5 h 54 m

Average Incident Duration Comparison / 2020 vs. 2021

Month	Average Incident Duration (Minutes: Seconds)	2019/2020	2020/2021
December	Lane Clearance	32:07	33:52
December	Incident Clearance	32:51	34:18
January	Lane Clearance	32:53	36:38
January	Incident Clearance	33:51	39:25
February	Lane Clearance	32:04	33:41
February	Incident Clearance	32:14	33:53

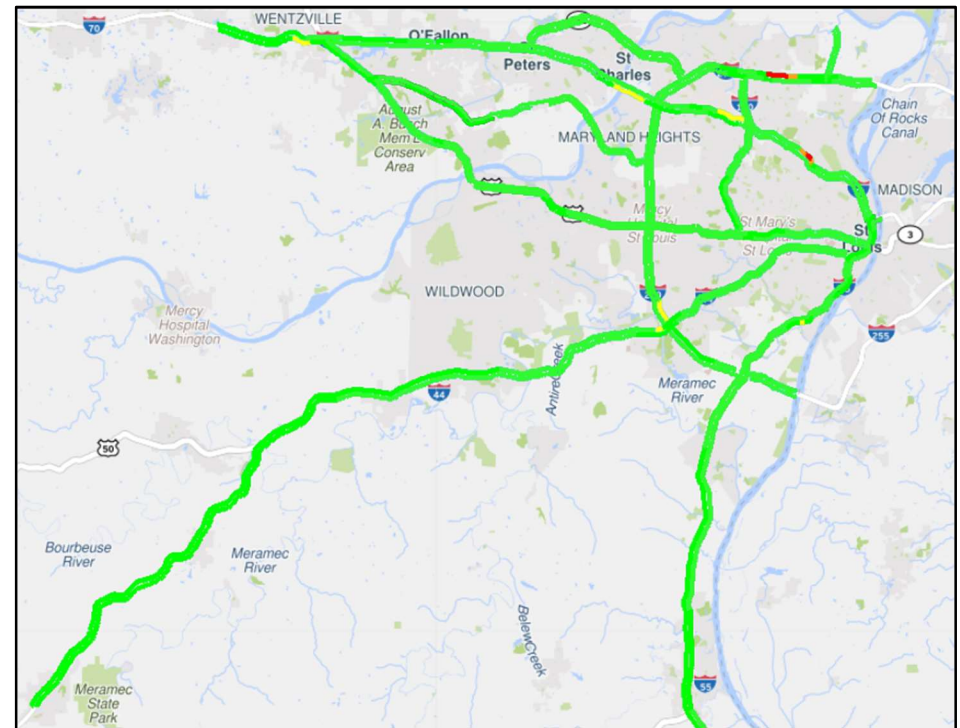
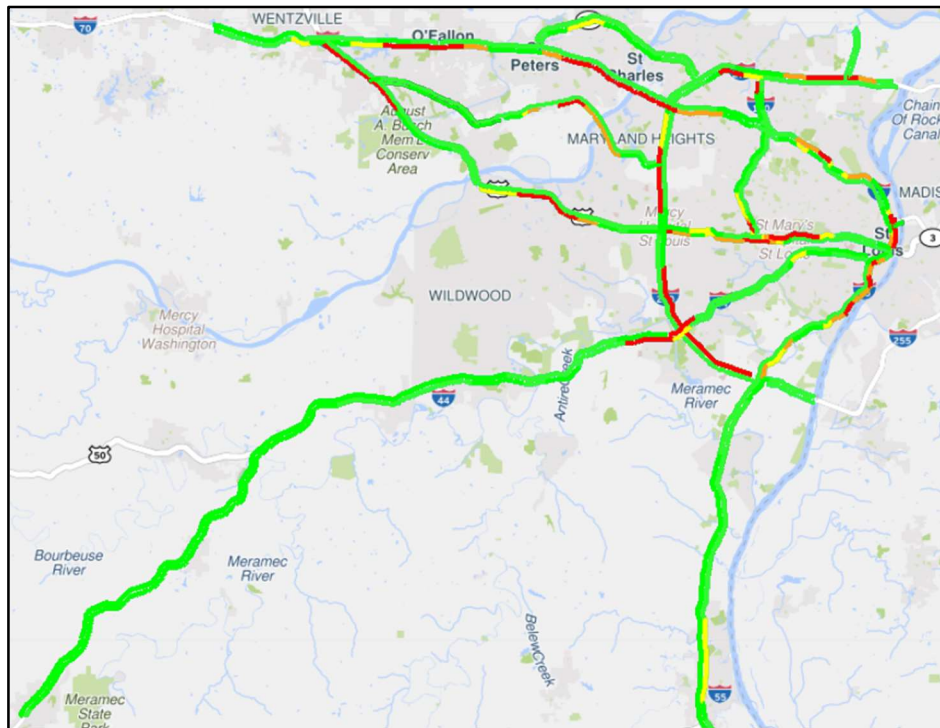


FREEWAY MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2020/JANUARY/FEBRUARY 2021

INCREASE in Overall AM Mobility

AM Peak Mobility Dec 2019/Jan/Feb 2020 vs Dec 2020/Jan/Feb 2021 *



2019/2020

- > 90 % of free-flow speed
- 85% - 90 % of free-flow speed
- 80 % - 85 % of free-flow speed
- < 80 % of free-flow speed

Regional % of free-flow speed hourly breakdown**:

	2019		2020
6 AM	97.4%	→	99.5%
7 AM	92.9%	→	98.9%
8 AM	93.9%	→	98.8%
9 AM	98.0%	→	98.9%

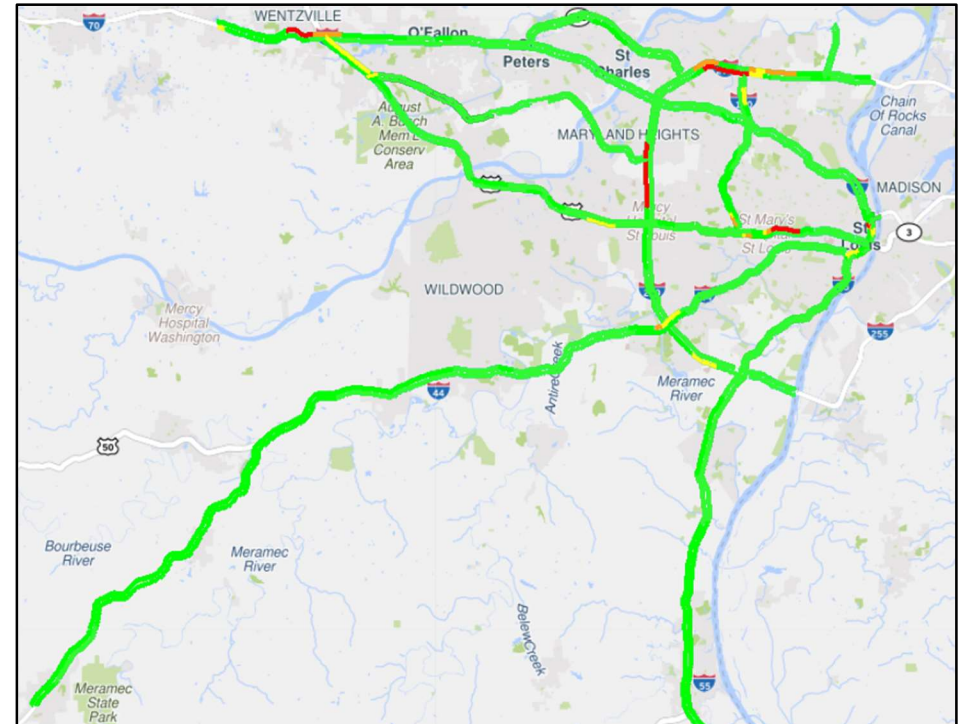
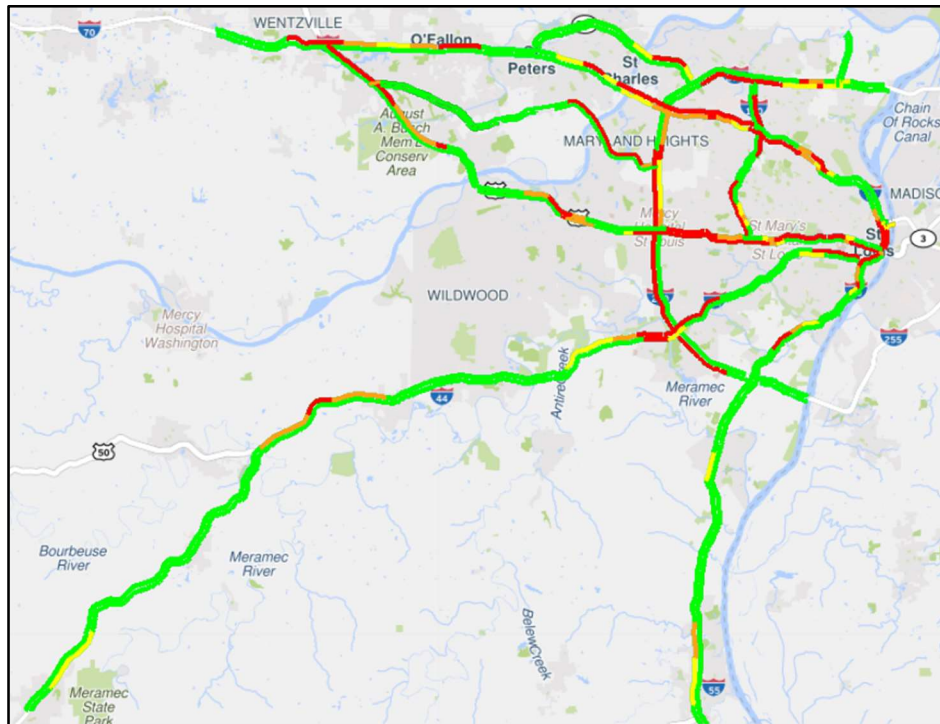
2020/2021

* 7am hour shown

**Regional % of free-flow speed is the averaged % of free-flow speeds for all directions of all freeways within the St. Louis District. This provides a high-level measurement of overall regional mobility for each peak hour.

INCREASE in Overall PM Mobility

PM Peak Mobility Dec 2019/Jan/Feb 2020 vs Dec 2020/Jan/Feb 2021 *



2019/2020

- > 90 % of free-flow speed
- 85% - 90 % of free-flow speed
- 80 % - 85 % of free-flow speed
- < 80 % of free-flow speed

Regional % of free-flow speed hourly breakdown**:

	2019		2020
3 PM	94.5%	→	98.4%
4 PM	89.9%	→	97.7%
5 PM	87.8%	→	97.8%
6 PM	94.8%	→	98.8%
7 PM	98.4%	→	99.4%

2020/2021

* 5pm hour shown

**Regional % of free-flow speed is the averaged % of free-flow speeds for all directions of all freeways within the St. Louis District. This provides a high-level measurement of overall regional mobility for each peak hour.



Top 5 Congestion Locations Comparison

Comparing Top 5 Congestion Locations of Dec 2019/Jan/Feb 2020 to Dec 2020/Jan/Feb 2021

- 1 I-270 N @ MO-100/MANCHESTER RD
Mobility INCREASED from 2019 → 2020
- 2 I-270 S @ DOUGHERTY FERRY RD
Mobility INCREASED from 2019 → 2020
- 3 I-170 S @ GALLERIA PKY
Mobility INCREASED from 2019 → 2020
- 4 I-64 E @ BOLAND PL
Mobility INCREASED from 2019 → 2020
- 5 I-64 W @ CLAYTON RD/OAKLAND AVE
Mobility INCREASED from 2019 → 2020



FREEWAY MANAGEMENT

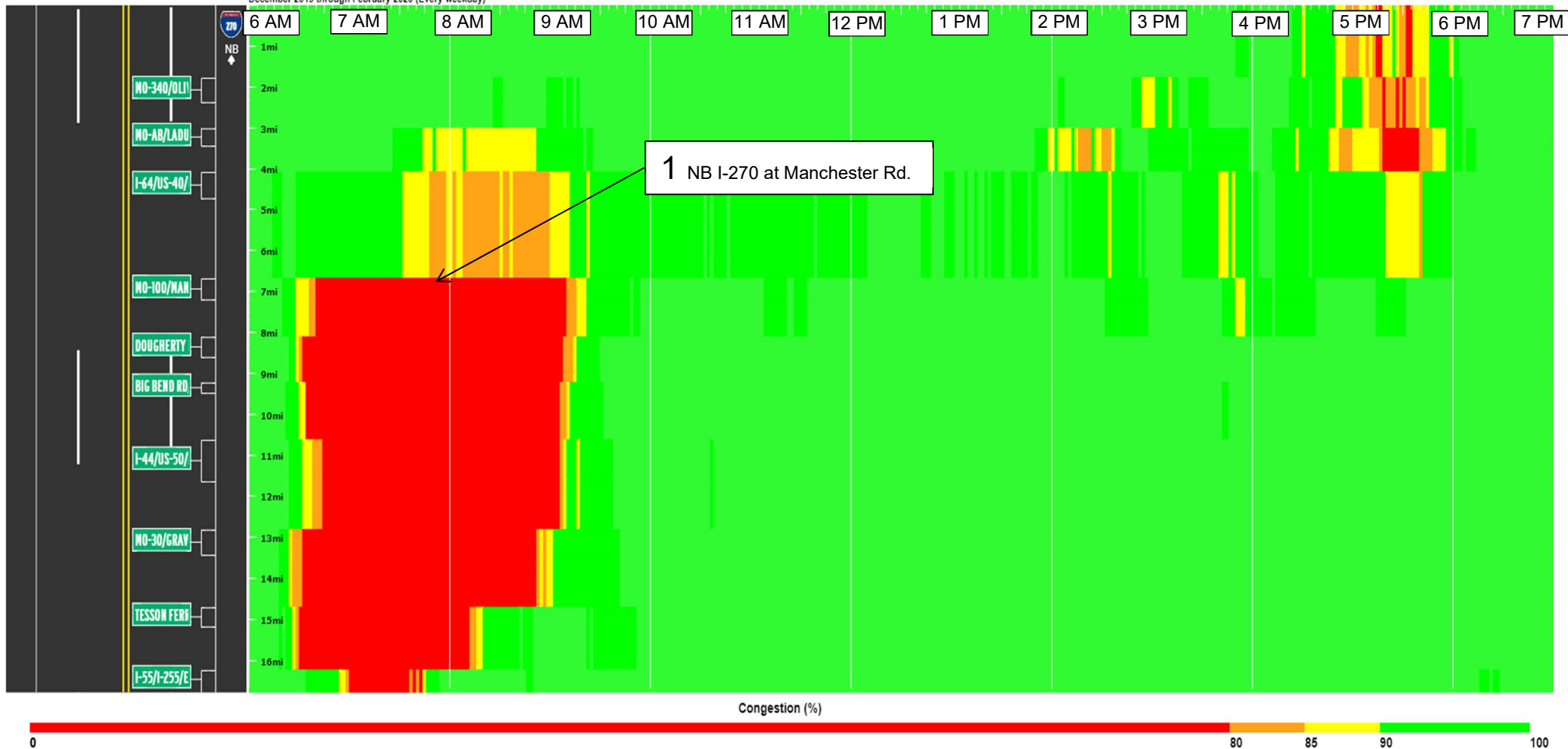
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2019/2020 NB I-270

Congestion for I-270 Northbound between I-55/I-255/Exit 1 and MO-D/Page Ave/Exit 16 using HERE data

Averaged by 2 minutes for December 2019 through February 2020 (Every weekday)

December 2019 through February 2020 (Every weekday)





FREEWAY MANAGEMENT

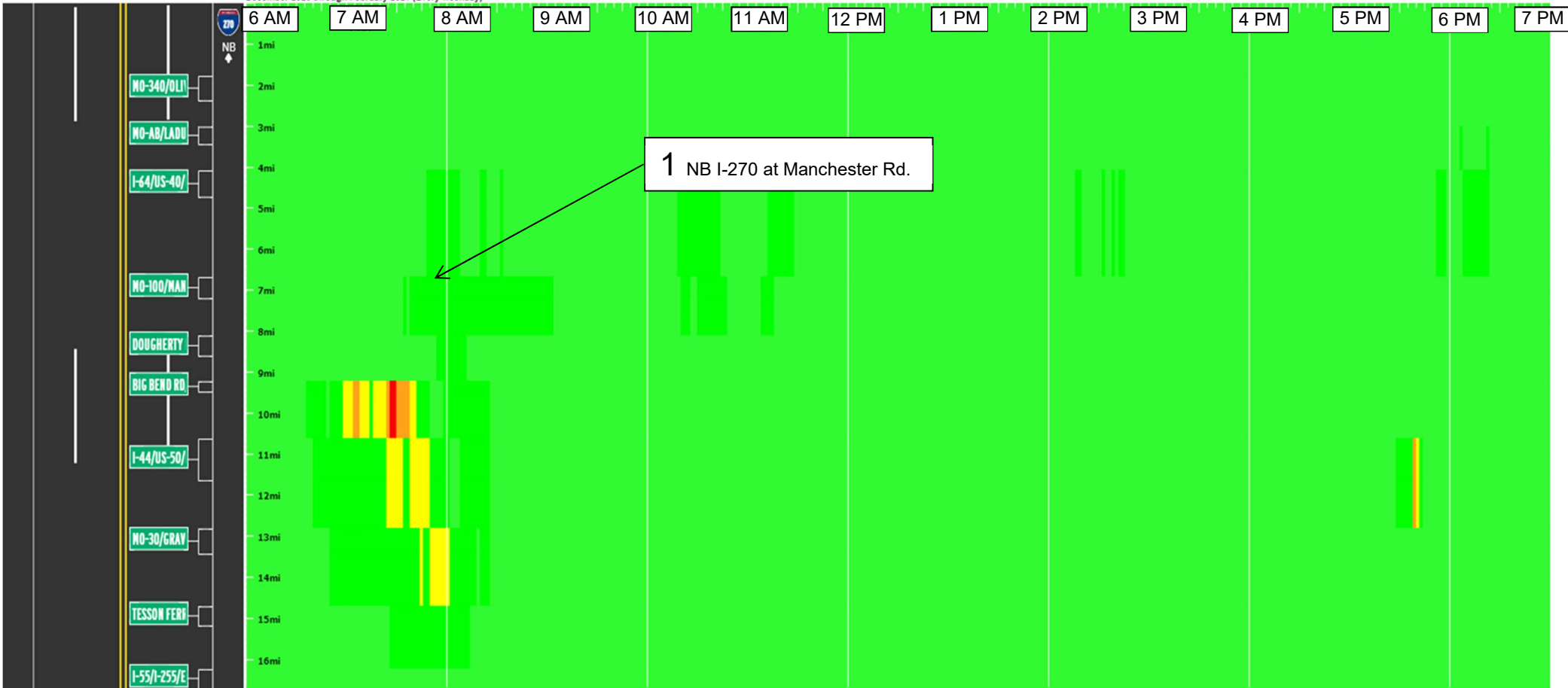
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2020/2021 NB I-270

Congestion for I-270 Northbound between I-55/I-255/Exit 1 and MO-D/Page Ave/Exit 16 using HERE data

Averaged by 2 minutes for December 2020 through February 2021 (Every weekday)

December 2020 through February 2021 (Every weekday)



Congestion (%)

0

80

85

90

100



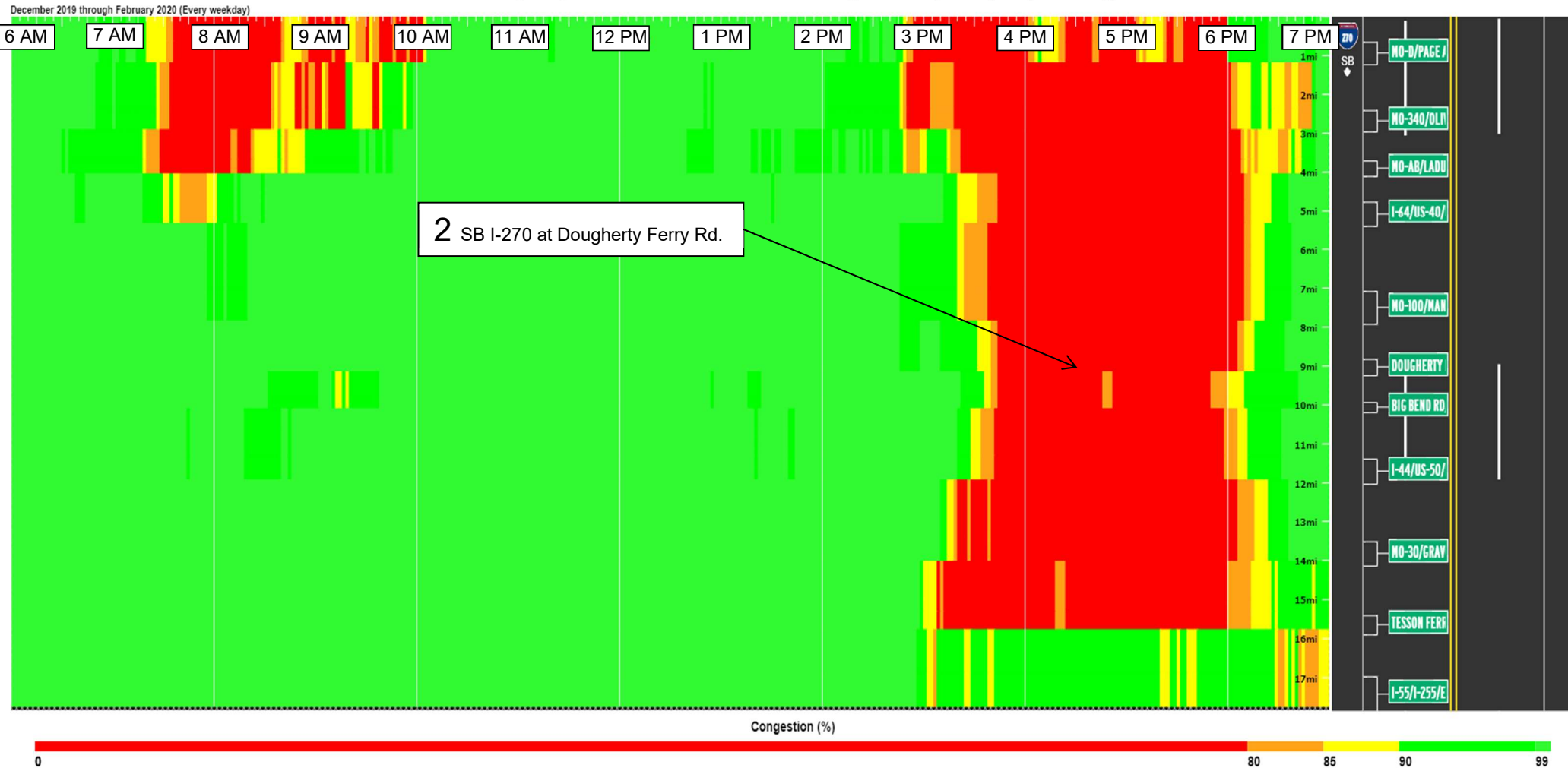
FREEWAY MANAGEMENT

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2019/2020 SB I-270

Congestion for I-270 Southbound between I-55/I-255/Exit 1 and MO-D/Page Ave/Exit 16 using HERE data

Averaged by 2 minutes for December 2019 through February 2020 (Every weekday)





FREEWAY MANAGEMENT

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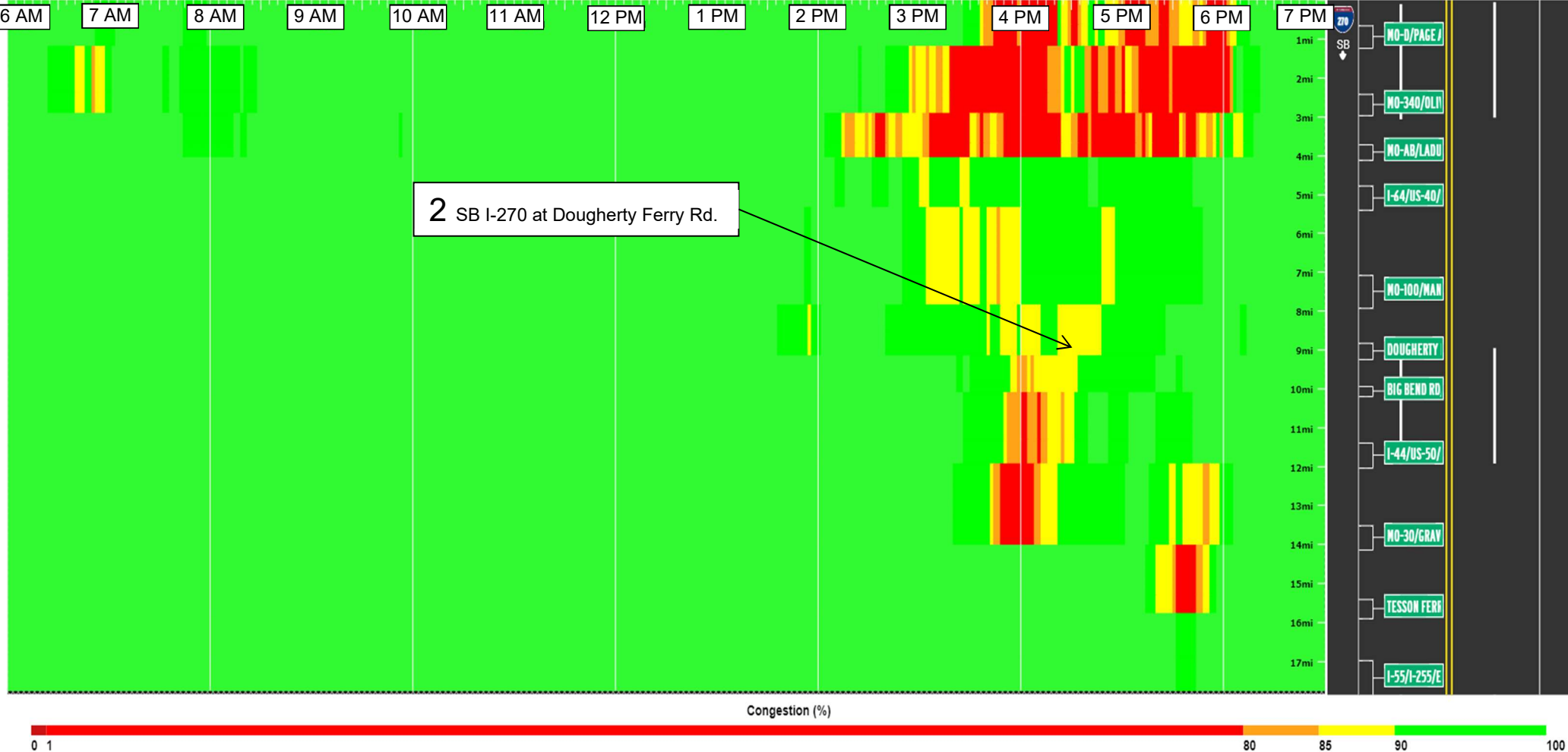


2019/2020 SB I-270

Congestion for I-270 Southbound between I-55/I-255/Exit 1 and MO-D/Page Ave/Exit 16 using HERE data

Averaged by 2 minutes for December 2020 through February 2021 (Every weekday)

December 2020 through February 2021 (Every weekday)





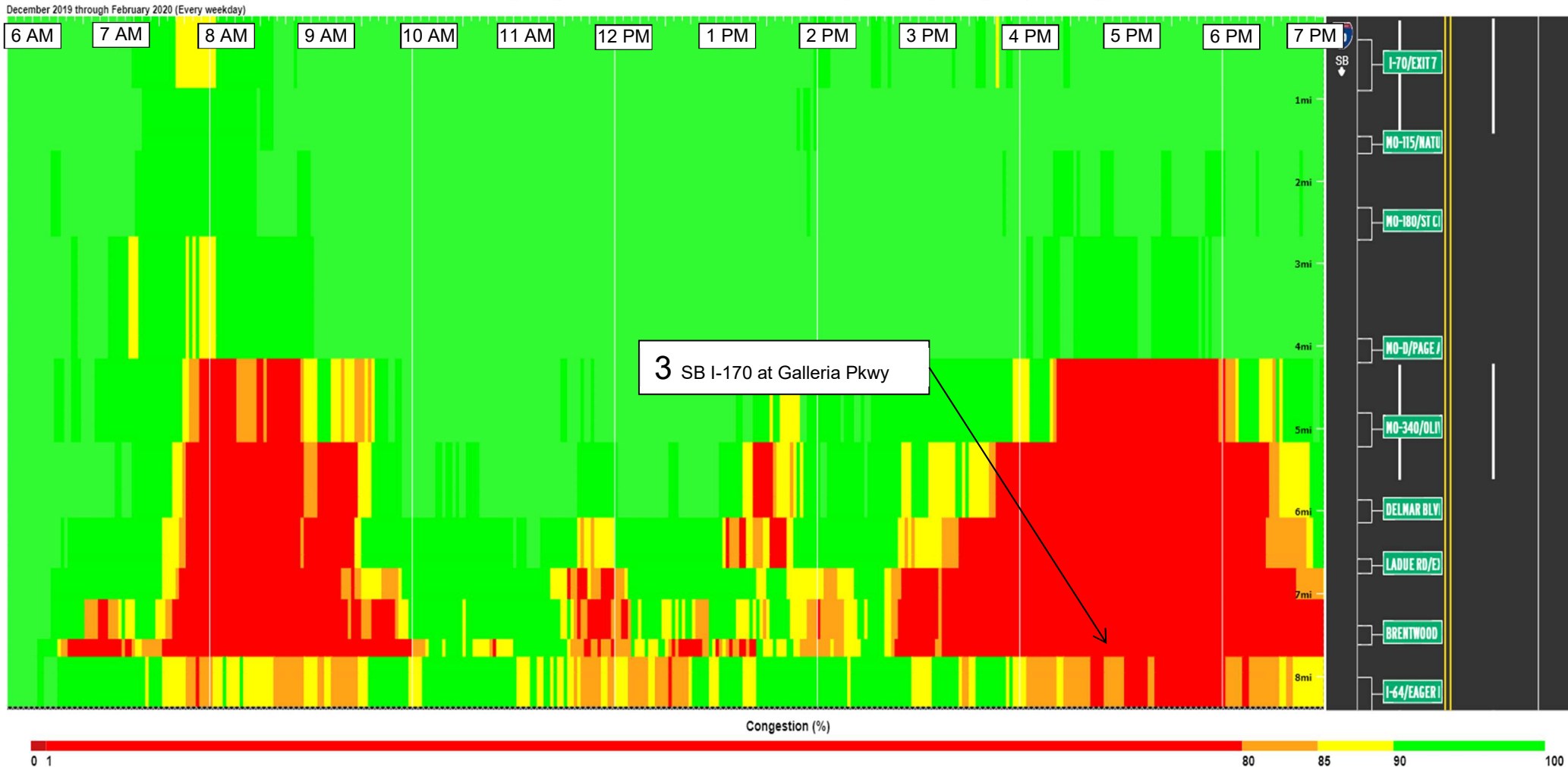
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2019/2020 SB I-170

Congestion for I-170 Southbound between I-70/Exit 7 and I-64/Eager Rd/Exit 1B/Exit 1A using HERE data

Averaged by 2 minutes for December 2019 through February 2020 (Every weekday)





FREEWAY MANAGEMENT

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2020/2021 SB I-170

Congestion for I-170 Southbound between I-70/Exit 7 and I-64/Eager Rd/Exit 1B/Exit 1A using HERE data

Averaged by 2 minutes for December 2020 through February 2021 (Every weekday)

December 2020 through February 2021 (Every weekday)





FREEWAY MANAGEMENT

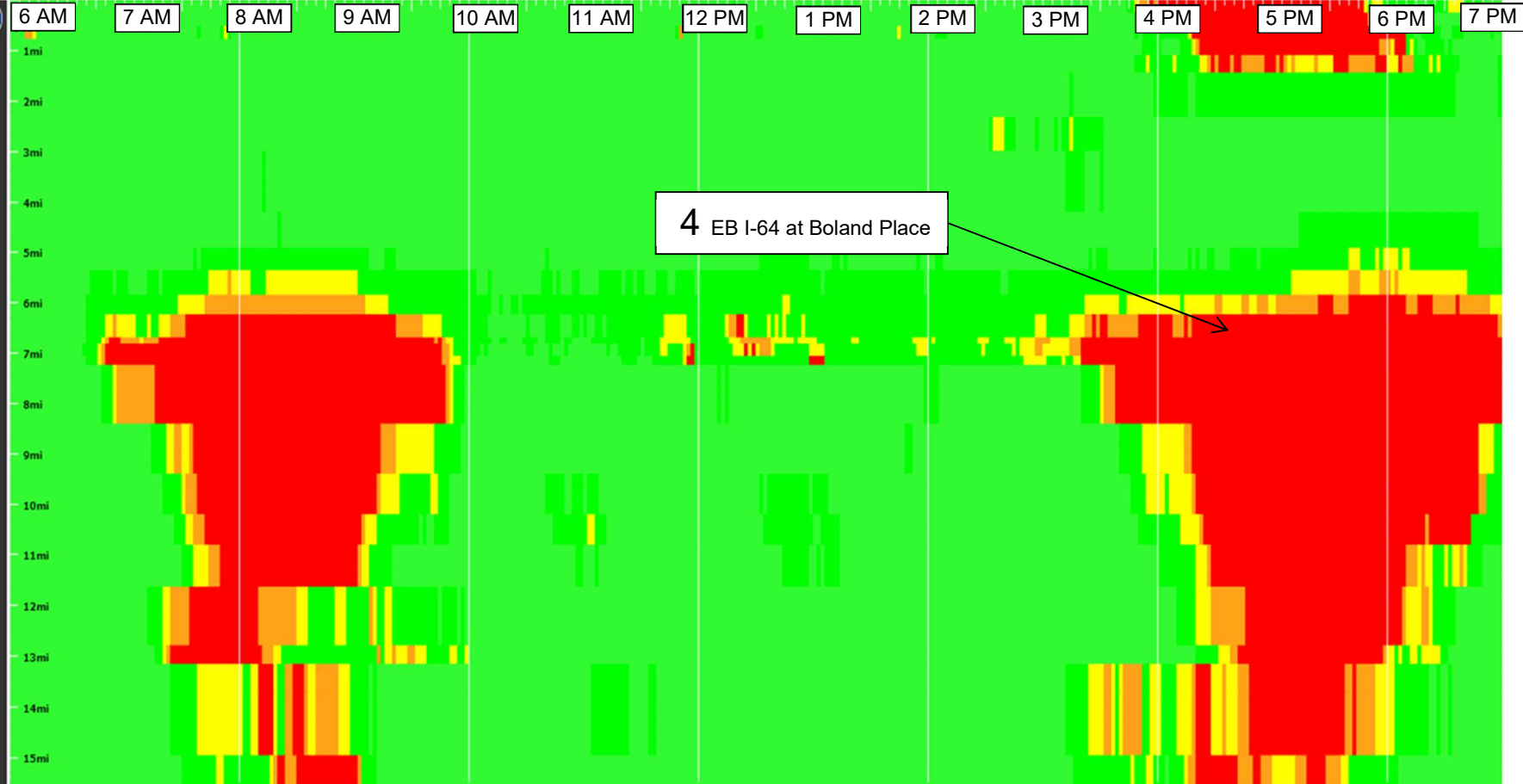
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2019/2020 EB I-64

Congestion for I-64 Eastbound between Mason Rd/Exit 24 and Market St At 21St St/Exit 39 using HERE data

Averaged by 2 minutes for December 2019 through February 2020 (Every weekday)

December 2019 through February 2020 (Every weekday)



Congestion (%)





FREEWAY MANAGEMENT

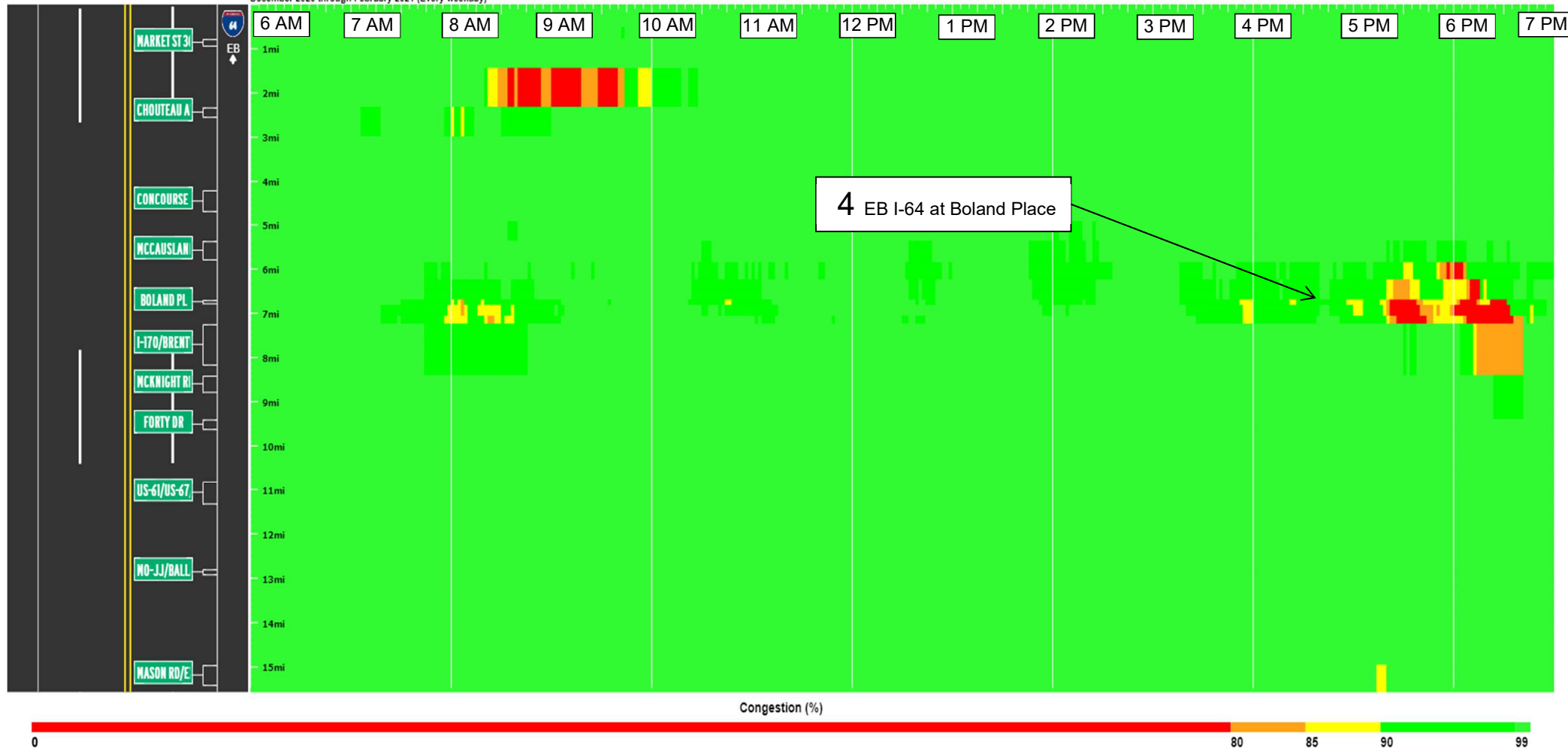
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2020/2021 EB I-64

Congestion for I-64 Eastbound between Mason Rd/Exit 24 and Market St At 21st St/Exit 39 using HERE data

Averaged by 2 minutes for December 2020 through February 2021 (Every weekday)

December 2020 through February 2021 (Every weekday)





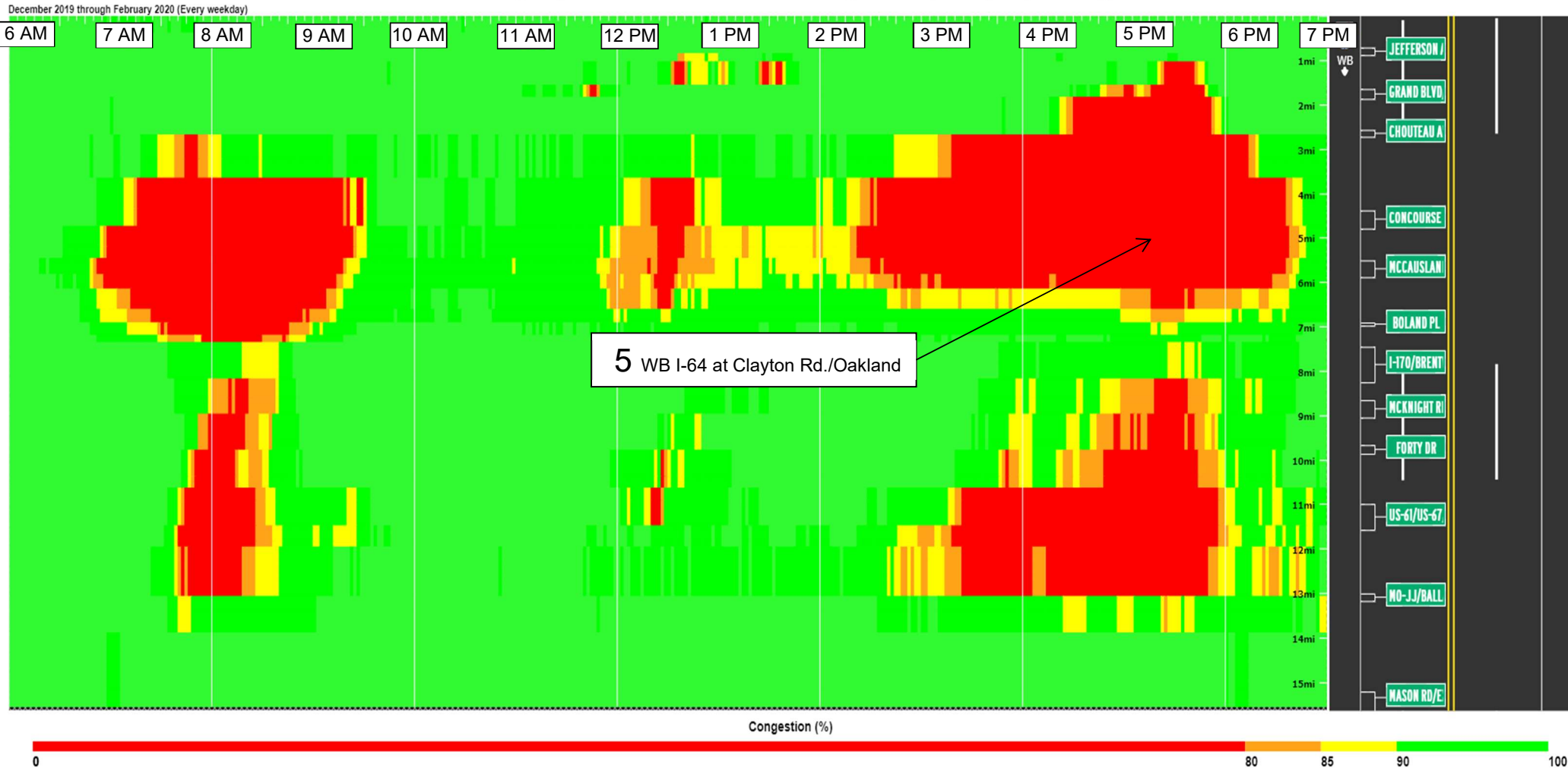
FREEWAY MANAGEMENT

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2019/2020 WB I-64

Congestion for I-64 Westbound between Mason Rd/Exit 24 and Market St At 21st St/Exit 39 using HERE data

Averaged by 2 minutes for December 2019 through February 2020 (Every weekday)





FREEWAY MANAGEMENT

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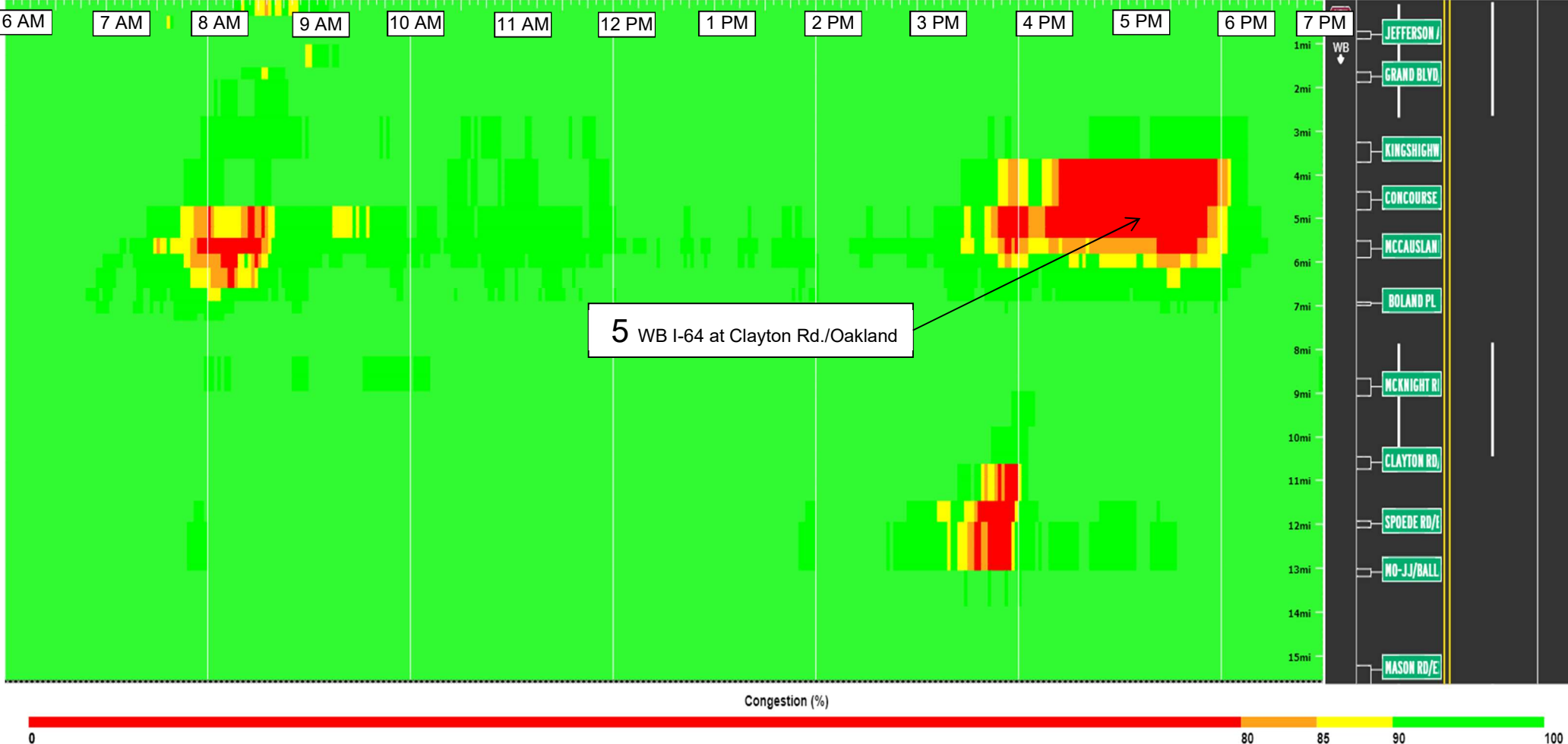


2020/2021 WB I-64

Congestion for I-64 Westbound between Mason Rd/Exit 24 and Market St At 21st St/Exit 39 using HERE data

Averaged by 2 minutes for December 2020 through February 2021 (Every weekday)

December 2020 through February 2021 (Every weekday)

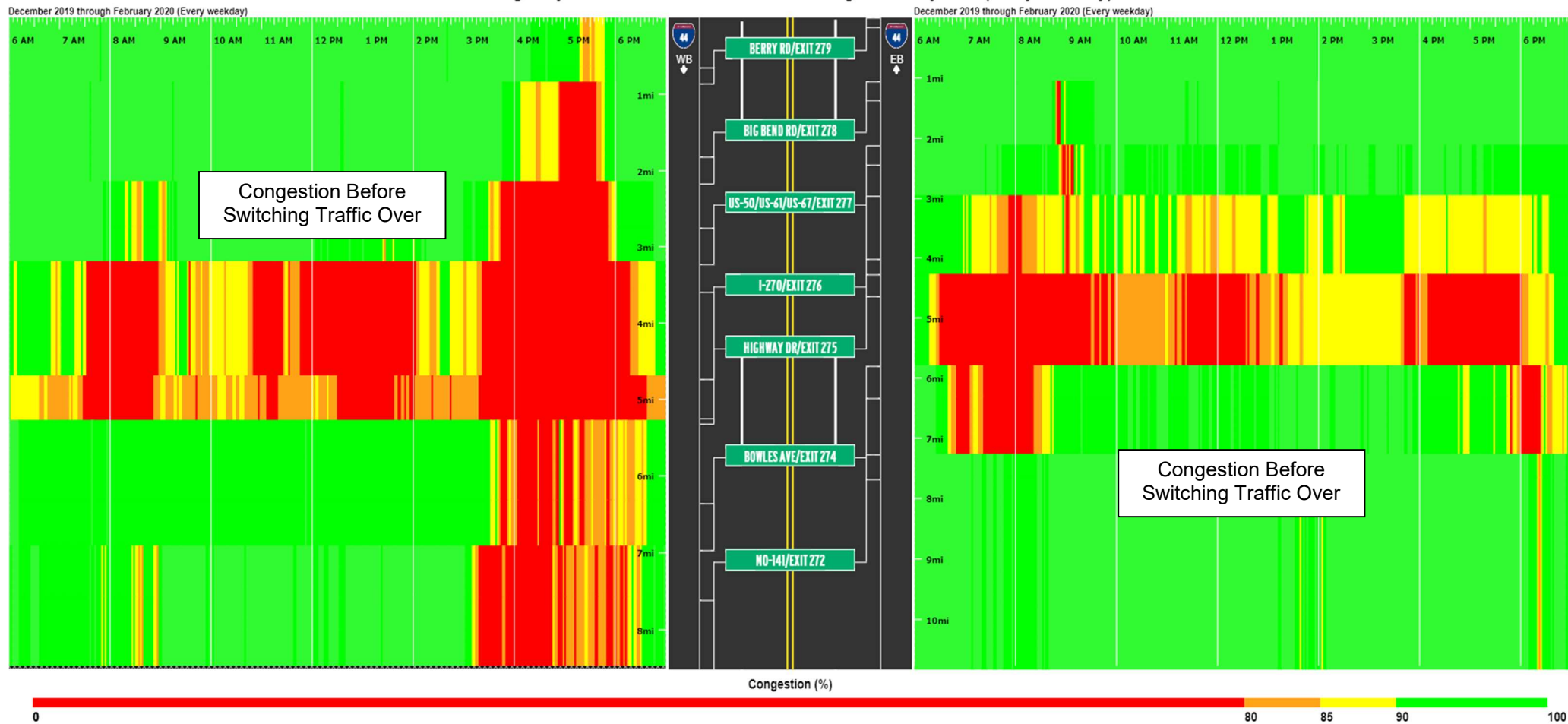


Analysis of Interstate 44 During the Meramec River Bridge Project

2019/2020 I-44

Congestion for I-44 between MO-141/Exit 272 and Berry Rd/Exit 279 using HERE data

Averaged by 2 minutes for December 2019 through February 2020 (Every weekday)





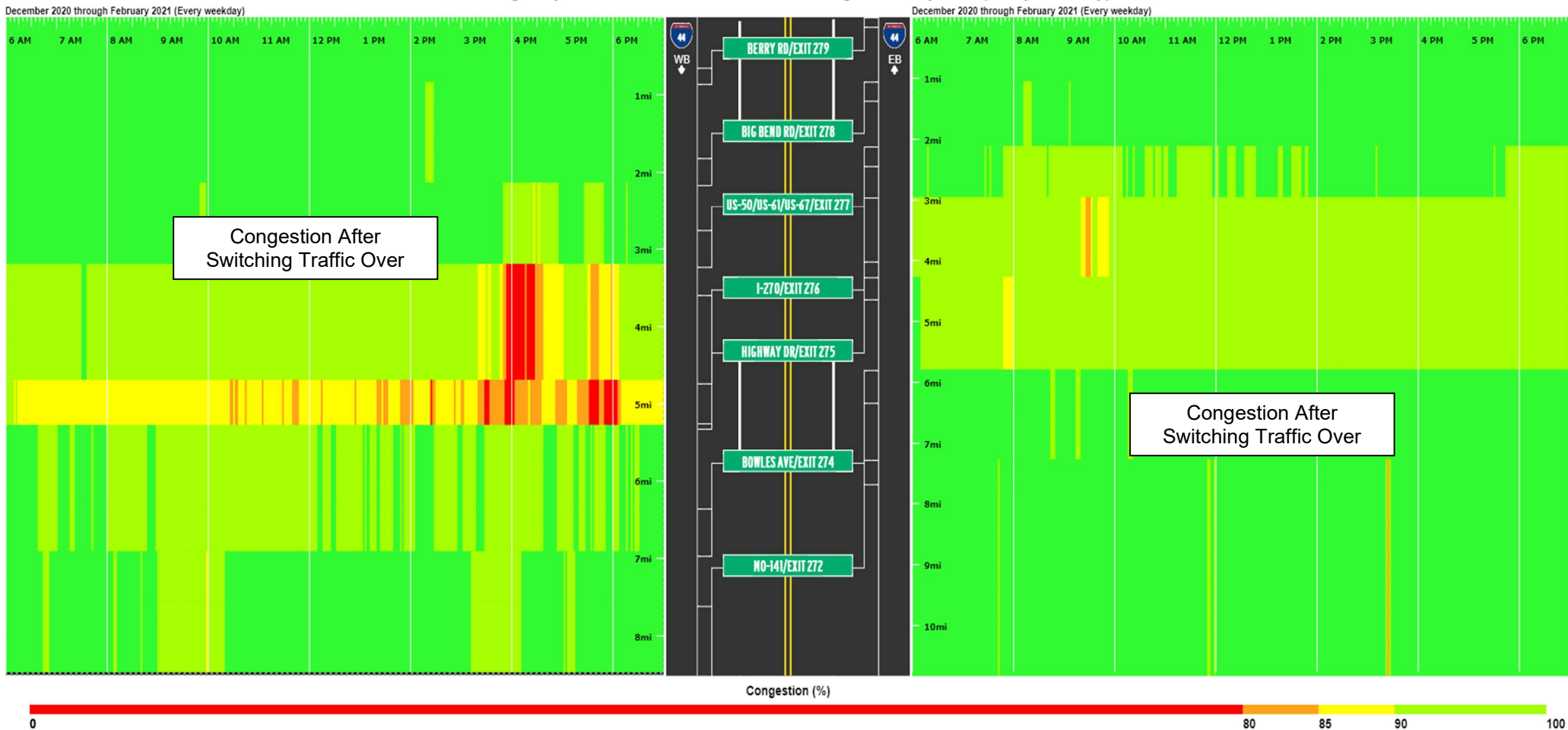
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2020/2021 I-44

Congestion for I-44 between MO-141/Exit 272 and Berry Rd/Exit 279 using HERE data

Averaged by 2 minutes for December 2020 through February 2021 (Every weekday)





WORKZONE MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2020/JANUARY/FEBRUARY 2021

TMC Observed Work Zones

	Dec 2020	Jan 2021	Feb 2021
Level of Travel Time Impact	Number of Work Zones	Number of Work Zones	Number of Work Zones
Major Impact	0	2	10
Moderate Impact	1	4	3
Minor Impact	201	111	98
Total	222	115	112



WORKZONE MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2020/JANUARY/FEBRUARY 2021



Additional Travel Time Impacts through Work Zones

Major Impact (15 Minutes or Above): #

Moderate Impact (10-14 Minutes): #

(Daily) Eastbound I-270 Design Build

- Roadway Rehab Construction
- All mitigation efforts were in use
- RITIS data recorded additional travel times up to 52 minutes

5

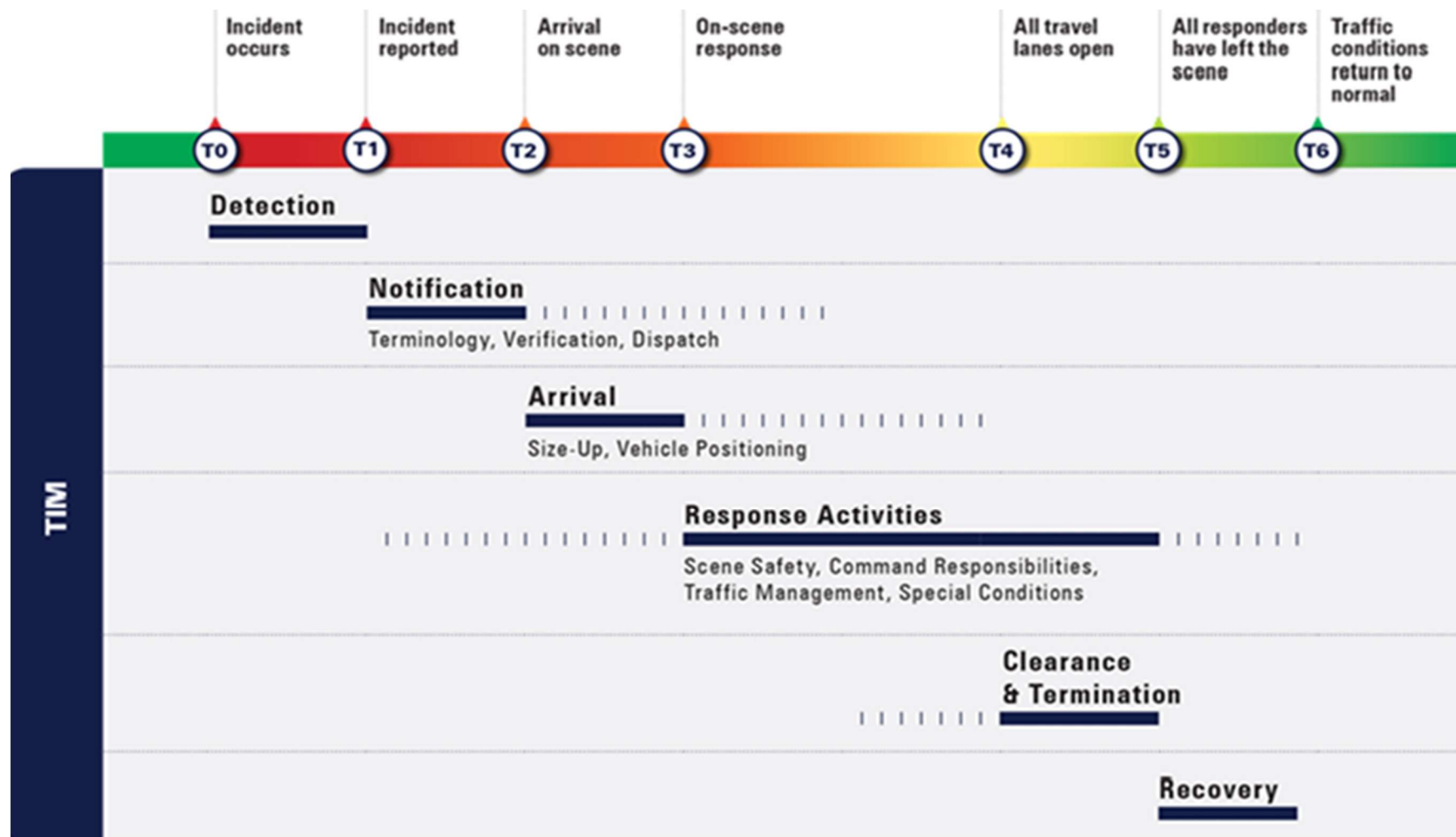
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(Daily) Westbound I-270 Design Build

- Roadway Rehab Construction
- All mitigation efforts were in use
- RITIS data recorded additional travel times up to 44 minutes

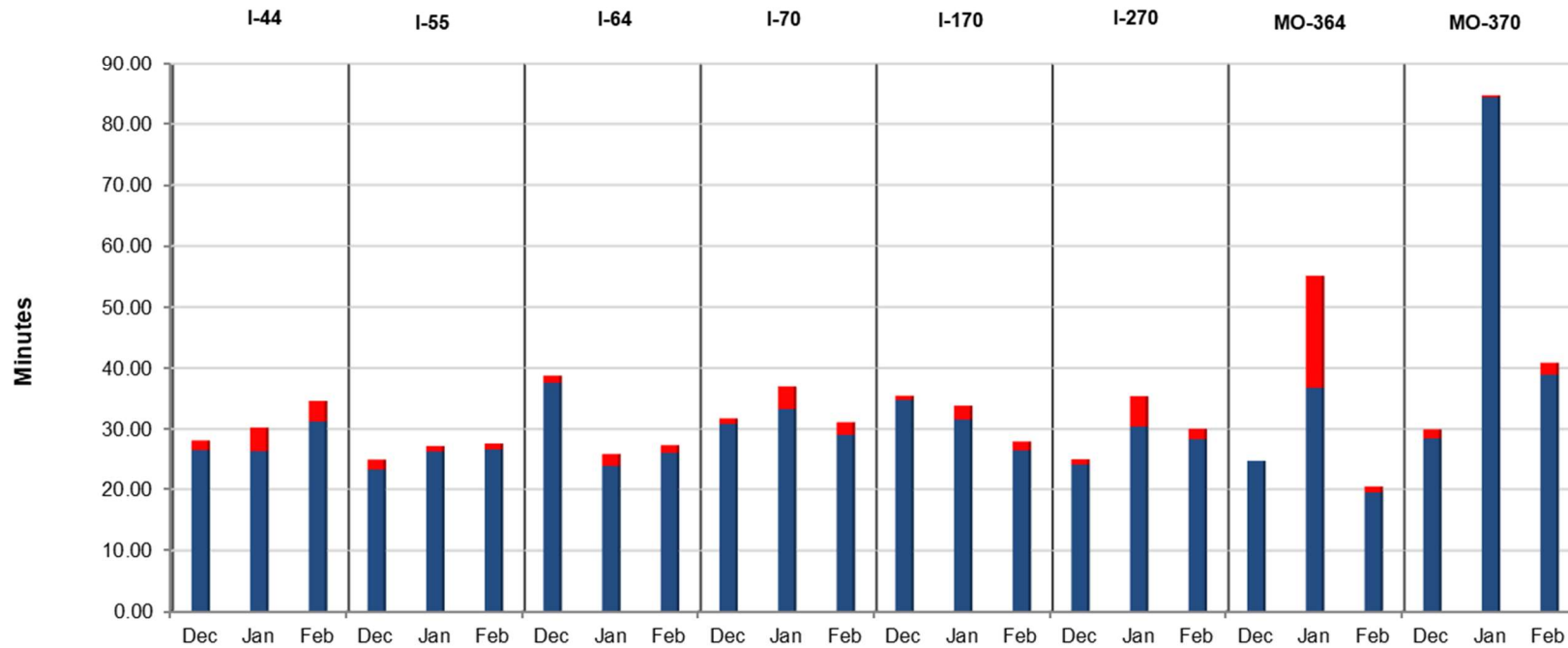
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5





December 2020/January/February 2021
Incidents Summary



■ Average Time for Backup to Clear = T6 - T4

■ Average Time to Clear Incident from Lanes = T4 - T1

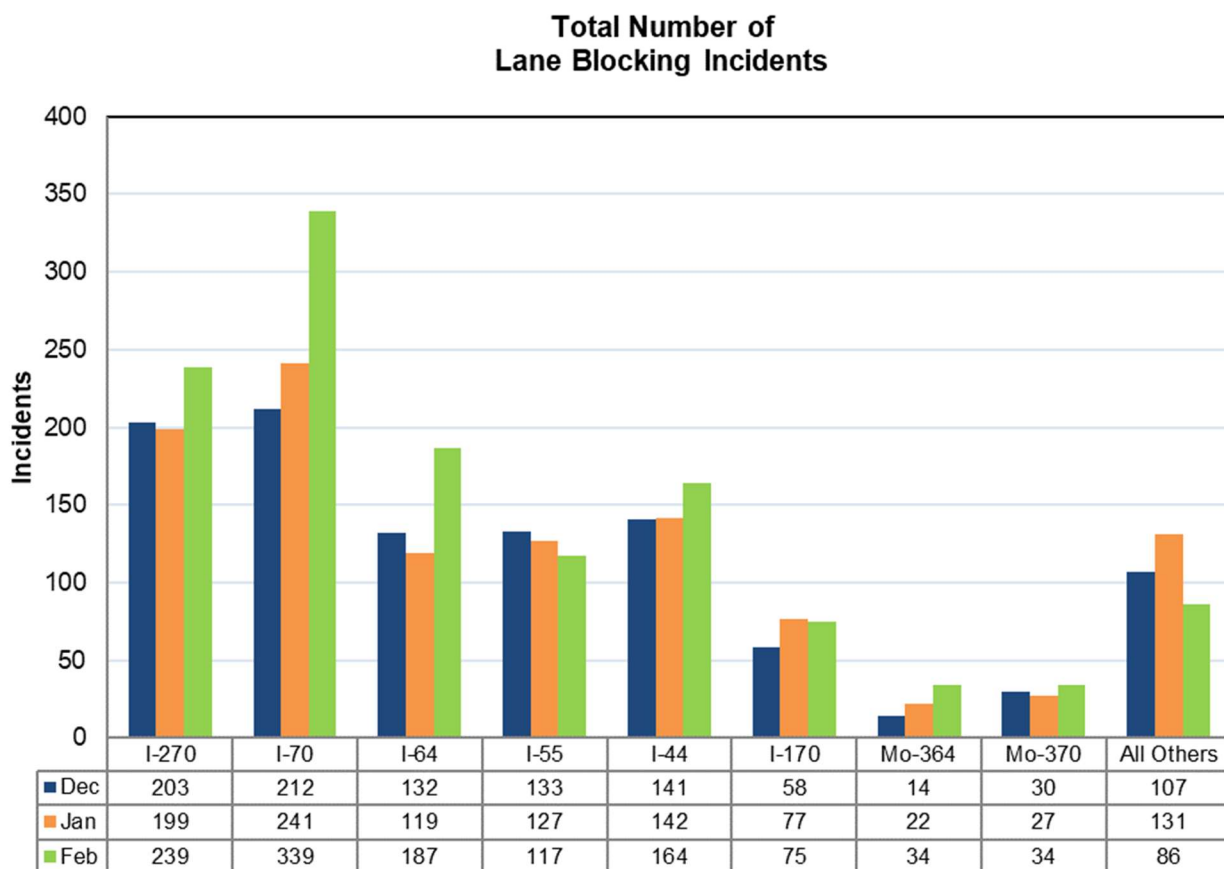


INCIDENT MANAGEMENT

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Total Number of Lane Blocking Incidents: / December: 1044 / January: 1061 / February: 1336



Major Impact Incidents

Dec	Jan	Feb
(11)	(22)	(22)

Fatal Incidents

Dec	Jan	Feb
(10)	(8)	(4)

Tractor Trailer Incidents

Dec	Jan	Feb
(36)	(43)	(82)



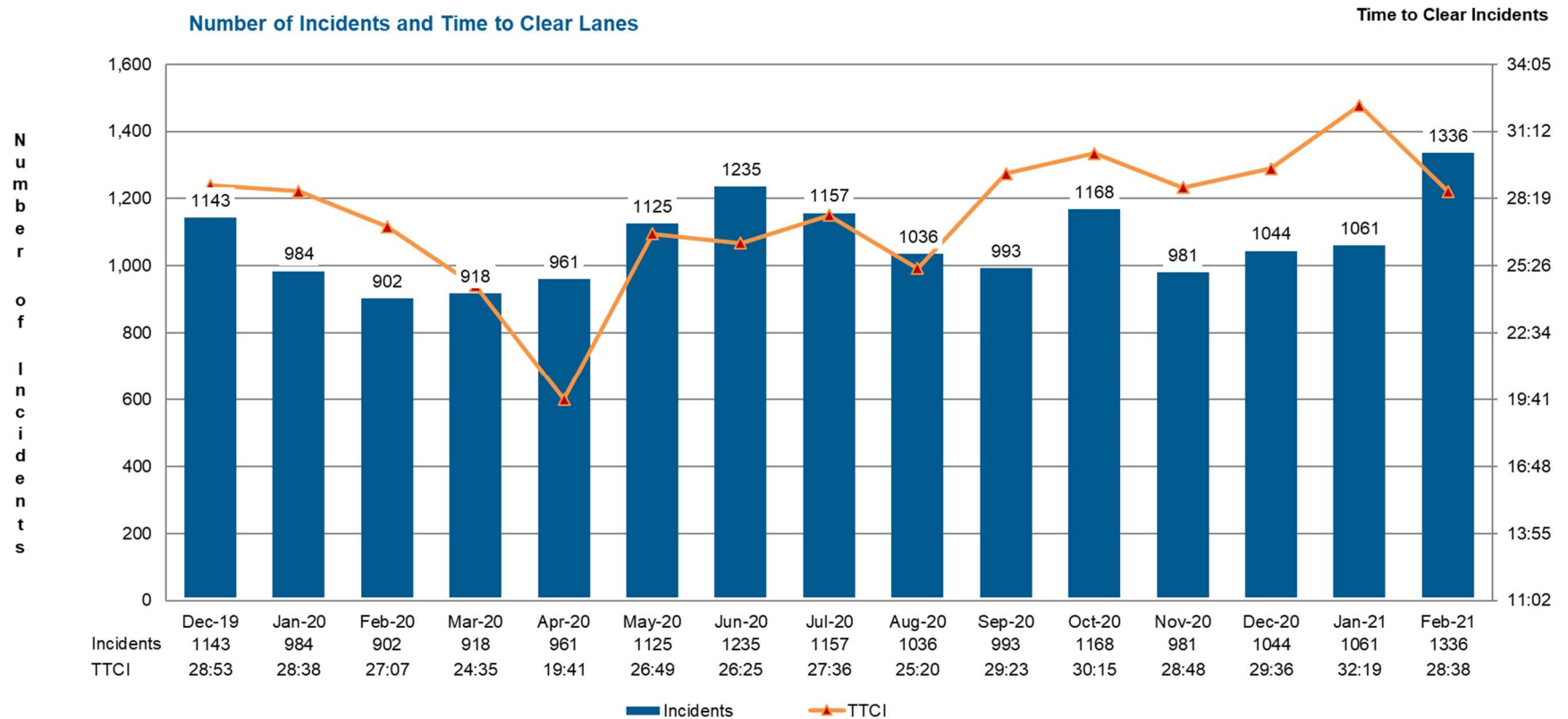
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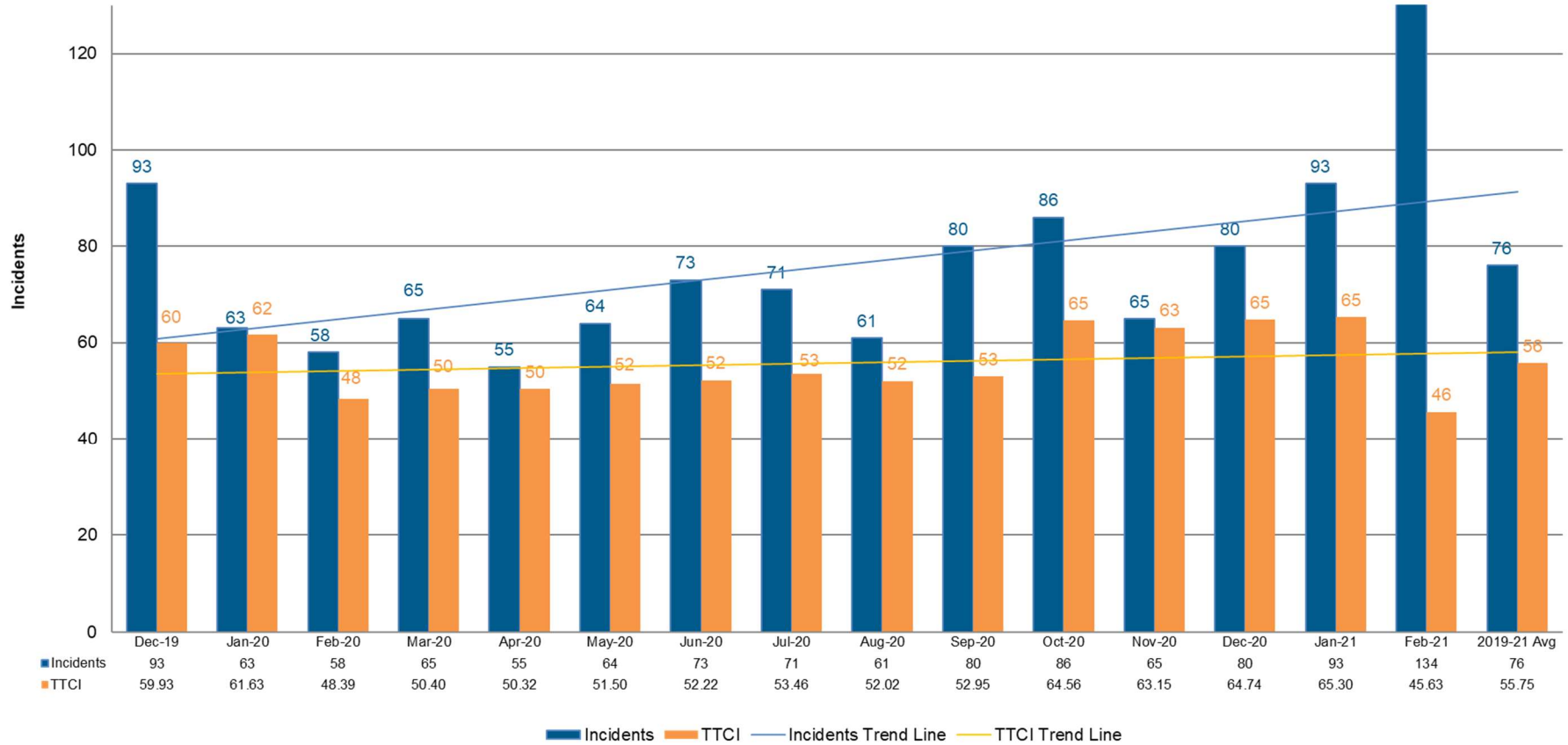
Lane Blocking Incidents by Freeway December 2020, January, February 2021

Interstate	Month	Number of Incidents	Average Time to Clear Incident from Lanes =T4 - T1	Average Time for Backup to Clear = T6 -T4	Freeway Miles	Incidents per Mile
I-44	December	141	26:33	01:35	33	4.27
I-44	January	142	26:23	03:53	33	4.30
I-44	February	164	31:14	03:23	33	4.97
I-55	December	133	23:12	01:49	23	5.78
I-55	January	127	26:19	00:54	23	5.52
I-55	February	117	26:40	00:59	23	5.09
I-64	December	132	37:35	01:10	40	3.30
I-64	January	119	23:49	02:07	40	2.98
I-64	February	187	26:05	01:17	40	4.68
I-70	December	212	30:50	00:56	38	5.58
I-70	January	241	33:16	03:43	38	6.34
I-70	February	339	29:03	02:05	38	8.92
I-170	December	58	34:47	00:41	11	5.27
I-170	January	77	31:34	02:17	11	7.00
I-170	February	75	26:29	01:29	11	6.82
I-270	December	203	24:02	01:01	36	5.64
I-270	January	199	30:25	04:59	36	5.53
I-270	February	239	28:21	01:43	36	6.64
MO-364	December	14	24:47	00:00	11	1.27
MO-364	January	22	36:46	18:22	11	2.00
MO-364	February	34	19:28	00:58	11	3.09
MO-370	December	30	28:28	01:30	13	2.31
MO-370	January	27	1:24:22	00:20	13	2.08
MO-370	February	34	38:55	01:58	13	2.62
Total	Dec/Jan/Feb	3066	31:14	02:28	615	4.99





2019 - 2021 Number of Tractor Trailer Incidents / Time to Clear



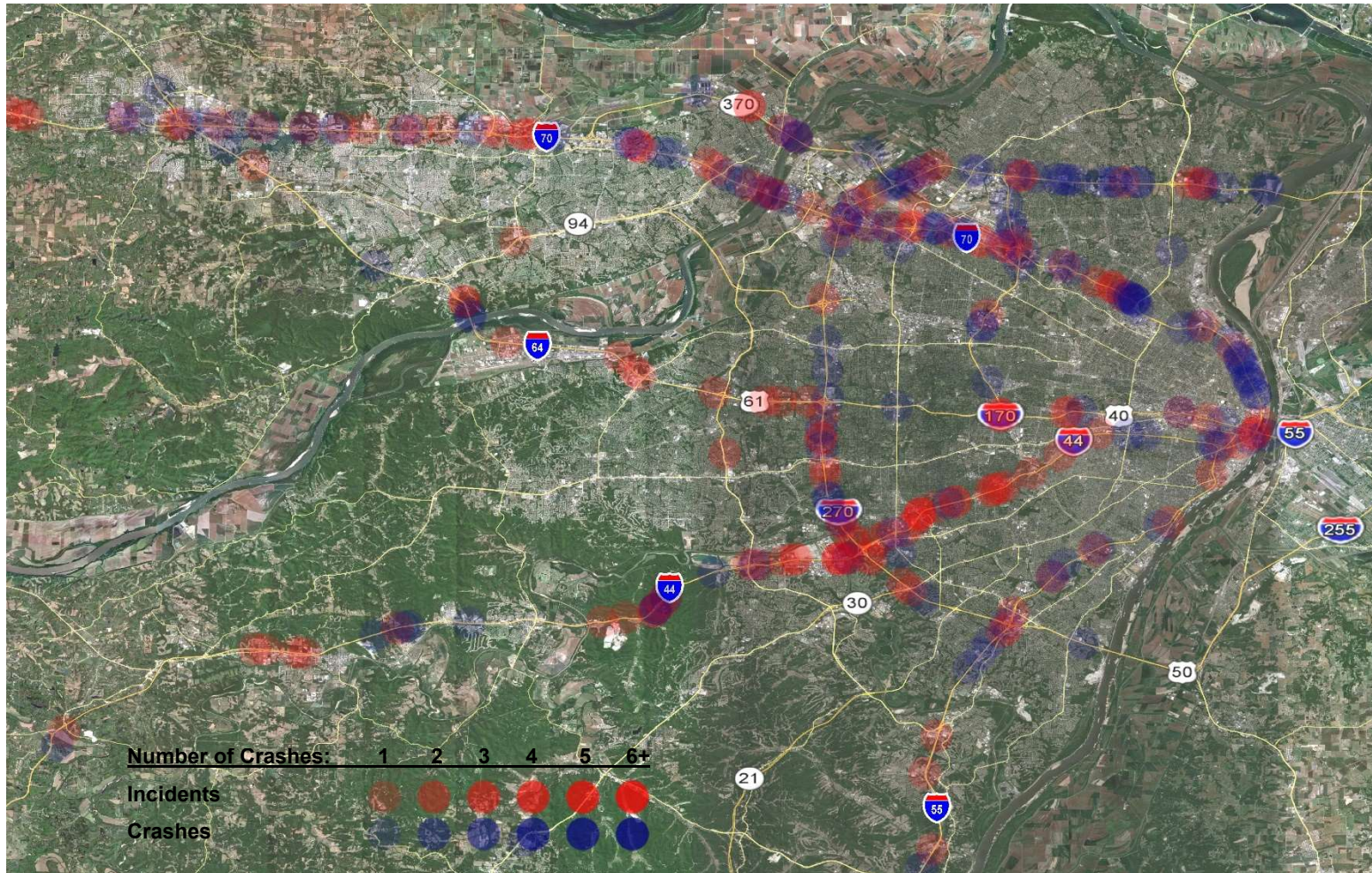


2020 Tractor Trailer Incidents by Route

2020	I-44	I-55	I-64	I-70	I-170	I-255/I-270	Route 364	Route 370	Other	Total
Jan	21	6	9	14	2	11	0	0	0	63
Feb	21	6	4	14	0	9	0	0	4	58
Mar	13	8	4	26	2	7	0	3	3	66
Apr	18	6	8	12	1	6	0	3	1	55
May	17	9	7	17	1	12	0	0	1	64
Jun	22	6	11	20	0	13	0	0	1	73
Jul	8	10	5	25	1	18	0	3	1	71
Aug	17	7	3	20	1	9	0	1	4	62
Sep	22	10	12	20	1	11	0	0	4	80
Oct	26	11	13	12	1	19	0	2	2	86
Nov	12	6	9	17	1	15	0	2	3	65
Dec	23	5	6	17	5	16	0	2	5	79
Yearly Total	220	90	91	214	16	146	0	16	29	822

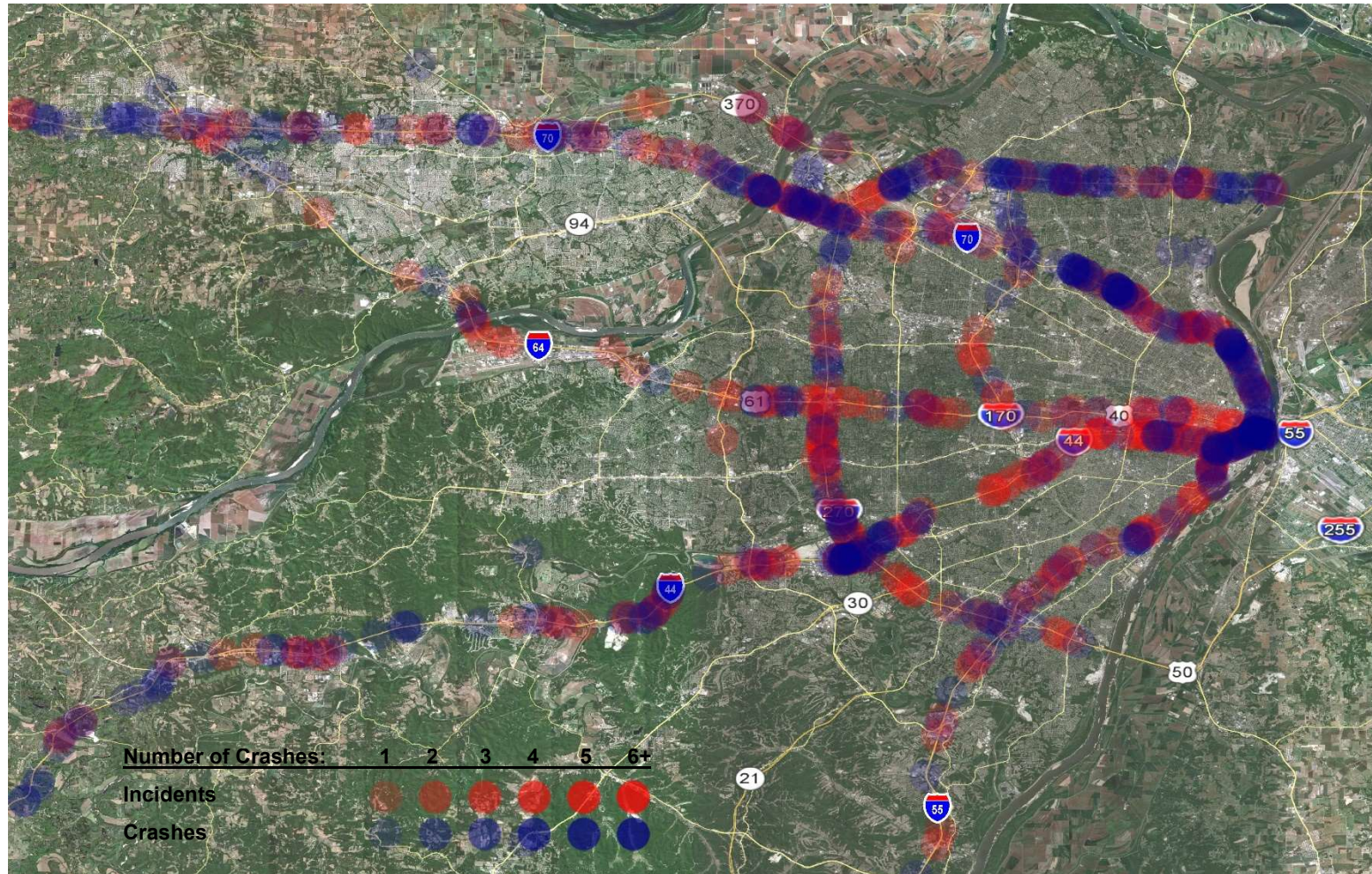


Dec 2020 / Jan / Feb 2021 Tractor Trailer Incidents





January 2020 – December 2020 Tractor Trailer Incidents Map





INCIDENT MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2020/JANUARY/FEBRUARY 2021



Incidents over Two Hours December 2020/January/February 2021

Incidents in red denote high mobility impact

#	Date & Time	Day of Week	Main Street	Cross Street	Comments	Event Dur
1	12/1/2020 18:28	Tuesday	I-270 WB	AT BELLEFONTAINE RD	Single vehicle crash	2:15
2	12/2/2020 13:27	Wednesday	MO 141 SB	PAST PAGE AVE	Incident involving spilled gravel on roadway	2:01
3	12/4/2020 22:46	Friday	I-55 SB	BEFORE GASCONADE ST	Multi vehicle crash involving guardrail and sign damage	7:19
4	12/4/2020 22:51	Friday	I-64 EB	AT KINGSHIGHWAY BLVD	Single vehicle crash involving injuries and a fatality	3:31
5	12/5/2020 17:53	Saturday	I-64 EB	AT MASON RD	Incident involving stalled vehicle	3:34
6	12/5/2020 19:20	Saturday	PAGE AVE CST	OGDEN AVE CST	Single vehicle incident involving fire	4:16
7	12/7/2020 21:50	Monday	US 61 SB	BEFORE RT A	Overtured tractor trailer spilling 47,000 pounds of drywall	6:15
8	12/11/2020 17:45	Friday	I-44 EB	BEFORE US 50	Overtured tractor trailer with injuries, spilling undetermined amount of paper goods	3:32
9	12/11/2020 21:27	Friday	I-44 WB	BEFORE HAMPTON AVE	Multi vehicle crash involving a vehicle leaving the scene and sobriety field test	2:23
10	12/12/2020 12:33	Saturday	I-270 EB	AT I-170	Single vehicle crash	2:17
11	12/12/2020 13:05	Saturday	I-270 EB	ON RAMP FROM RIVERVIEW RD	Overtured tractor trailer spilling 42,000 pounds of dish washing liquid	3:36
12	12/12/2020 16:30	Saturday	US 67 SB	PAST CHEZ PAREE DR	Single vehicle accident with multiple gun shots	5:39
13	12/12/2020 17:14	Saturday	US 67 NB	PAST TAYLOR RD	Local PD requested lane closures	4:56
14	12/12/2020 20:06	Saturday	I-270 SB	PAST BIG BEND BLVD	Overtured tractor trailer with guard rail damage and also spilled 30 gallons of oil	6:04



INCIDENT MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ DECEMBER 2020/JANUARY/FEBRUARY 2021



Incidents over Two Hours December 2020/January/February 2021

Incidents in red denote high mobility impact

#	Date & Time	Day of Week	Main Street	Cross Street	Comments	Event Dur
15	12/13/2020 23:58	Sunday	I-44 EB	BEFORE MADISON	Single vehicle crash involving a fatality	2:16
16	12/14/2020 18:59	Monday	I-270 WB	ON RAMP FROM RIVERVIEW DR	Overtaken tractor trailer spilling 43,000 pounds of general merchandise	4:13
17	12/15/2020 3:49	Tuesday	I-44 WB	PAST BUS 44 SIX FLAGS RD	Overtaken tractor trailer spilling 44,000 pounds of cake mix	3:12
18	12/16/2020 1:17	Wednesday	I-55 NB	BEFORE ROUTE Z	Single vehicle rollover crash involving fire	2:08
19	12/16/2020 4:45	Wednesday	I-170 NB	ON RAMP FROM AIRPORT RD	Multi vehicle crash involving injuries	3:08
20	12/16/2020 11:57	Wednesday	I-55 NB	AT WEBER RD	Multi vehicle crash involving injuries and water main break	2:30
21	12/16/2020 22:42	Wednesday	MO 364 WB	PAST MO 94 WB	Single vehicle crash involving a fatality	2:02
22	12/17/2020 5:41	Thursday	I-70 WB	PAST JENNINGS STA RD	Tractor Trailer requiring fuel	2:30
23	12/17/2020 16:11	Thursday	I-64 WB	PAST CHESTERFIELD W	Tractor trailer incident requiring roadside assistance	2:13
24	12/17/2020 16:45	Thursday	MO 370 EB	PAST MO 94	Multi tractor trailer crash including spilled oil on pavement	2:14
25	12/17/2020 20:11	Thursday	N HALLS FERRY RD CST	COZENS AVE CST	Single vehicle crash involving fatality	2:35
26	12/22/2020 12:02	Tuesday	I-270 WB	ON RAMP FROM MCDONNELL BLVD	Single vehicle crash involving pedestrian and fatality	3:08
27	12/22/2020 12:06	Tuesday	I-270 SB	BEFORE MO 370	Single vehicle crash involving fire	3:00



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#	Date & Time	Day of Week	Main Street	Cross Street	Comments	Event Dur
28	12/25/2020 21:40	Friday	MO 364 EB	PAST ARENA PKWY	Multi vehicle crash involving wrong way driver, multiple injuries and single fatality	4:27
29	12/29/2020 2:47	Tuesday	I-270 NB	TO I-70 WB	Multi vehicle crash involving injuries	2:08
30	12/30/2020 14:06	Wednesday	I-55 NB	AT LOUGHBOROUGH AVE	Multi vehicle crash involving an injury and a fatality	2:55
31	12/30/2020 18:08	Wednesday	340 MO	RIVER VALLEY DR CST	Single vehicle crash involving a fatality and signal damage	4:04
32	12/31/2020 6:37	Thursday	I-44 WB	BEFORE BUS 44 MO 100 EAST GRAY SUMMIT	Overtaken tractor trailer spilling mayonnaise, ketchup, and macaroni and cheese	5:42
33	1/1/2021 3:05	Friday	I-70 EB	PAST TUCKER BLVD	Multi vehicle (30-40) crash on Illinois side of I-70 Stan Span	2:11
34	1/4/2021 12:35	Monday	I-70 WB	PAST ROUTE K/M	Single vehicle incident requiring maintenance	3:24
35	1/4/2021 13:02	Monday	S 367 MO	SUNBEAM LN CST	Single vehicle crash involving a pedestrian and fatality	3:27
36	1/8/2021 0:29	Friday	I-270 SB	AT MANCHESTER RD	Single vehicle crash involving overturned vehicle	2:13
37	1/8/2021 21:06	Friday	I-270 SB	AT LADUE RD	Multi vehicle crash with injuries and involving spilled tractor trailer cargo and barrier wall damage	4:54
38	1/9/2021 21:08	Saturday	E MANCHESTER RD CST	Oakland	Single vehicle crash involving power pole damage	3:34
39	1/10/2021 13:12	Sunday	I-70 WB	PAST TR HUGHES BLVD	Single vehicle crash involving a fatality and pedestrian	2:02



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#	Date & Time	Day of Week	Main Street	Cross Street	Comments	Event Dur
40	1/10/2021 21:56	Sunday	W 100 MO	KINGSHIGHWAY BLVD CST	Single vehicle crash involving knocked down pedestrian signal and hit run	4:24
41	1/12/2021 9:06	Tuesday	100 MO	BOEUF CREEK RD CRD	Multi vehicle crash involving several vehicles and a tractor trailer	3:31
42	1/13/2021 7:33	Wednesday	MO 370 WB	PAST MO 94	Tractor trailer crash involving fire blocking all lanes	8:16
43	1/13/2021 23:36	Wednesday	W KINSWOOD LN CRD	MARTIGNEY DR CRD	Incident involving spilled gravel on roadway	2:12
44	1/14/2021 8:10	Thursday	N HICKORY GLEN CT CST	CEDAR CREEK CT CST	Single vehicle crash involving a fatality	2:22
45	1/18/2021 6:16	Monday	I-70 EB	AT I-64	Single vehicle crash involving tractor trailer of the roadway	4:17
46	1/18/2021 13:29	Monday	US 67 SB	AT OLD ST CHARLES RD	Multi vehicle crash involving tractor trailer and including a fatality	3:50
47	1/19/2021 8:08	Tuesday	I-270 WB	AT W FLORISSANT AVE	Multi vehicle crash involving tractor trailer and vehicle on fire	2:03
48	1/21/2021 13:52	Thursday	I-270 SB	BEFORE LADUE RD	Multi vehicle crash involving a fatality	4:13
49	1/22/2021 3:14	Friday	I-170 NB	TO HANLEY RD	Multi vehicle crash involving a fatality	5:33
50	1/22/2021 23:25	Friday	I-270 SB	PAST MANCHESTER RD	Multi vehicle crash involving fatalities	6:57
51	1/22/2021 23:43	Friday	I-270 SB	ON RAMP FROM MANCHESTER RD EB	Multi vehicle crash involving fatalities	6:39
52	1/23/2021 1:29	Saturday	I-70 WB	BEFORE WEST FLORISSANT	Single vehicle crash involving injuries	5:49



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#	Date & Time	Day of Week	Main Street	Cross Street	Comments	Event Dur
53	1/23/2021 6:46	Saturday	I-44 EB	PAST I-270	Single vehicle crash	3:44
54	1/23/2021 18:39	Saturday	I-70 EB	AT KINGSHIGHWAY	Water main break spilling onto highway	5:27
55	1/25/2021 2:54	Monday	MANCHESTER RD EB	BEFORE I-270/DES PERES RD	Event involving downed power poles	4:42
56	1/27/2021 7:32	Wednesday	MO 364 WB	PAST HARVESTER RD	Single vehicle crash	4:55
57	1/27/2021 7:50	Wednesday	MO 364 WB	PAST ARENA PKWY	Single vehicle crash	4:37
58	1/27/2021 9:47	Wednesday	I-70 WB	PAST MO 141	Single vehicle crash	2:41
59	1/27/2021 10:00	Wednesday	I-70 WB	BEFORE MO 79	Single vehicle crash	2:28
60	1/27/2021 10:17	Wednesday	I-70 EB	AT CAVE SPRINGS/ TRUMAN RD	Incident involving concrete barrier falling off tractor trailer	2:10
61	1/27/2021 10:59	Wednesday	I-270 SB	AT I-70	Single vehicle crash	4:22
62	1/27/2021 11:45	Wednesday	I-44 EB	PAST ANTIRE RD	Overtaken tractor trailer spilling logs	4:49
63	1/27/2021 12:05	Wednesday	I-70 WB	AT CAVE SPRINGS/ TRUMAN RD	Tractor trailer crash involving spilled fuel	2:43
64	1/27/2021 12:32	Wednesday	I-70 WB	ON RAMP FROM CAVE SPRINGS/ TRUMAN RD	Tractor trailer crash involving spilled fuel	2:20
65	1/27/2021 21:09	Wednesday	N 367 MO	Haviland Dr	Multi vehicle crash involving injuries and a fatality	3:17
66	1/29/2021 20:06	Friday	I-270 SB	BEFORE DORSETT RD	Multi vehicle crash involving wrong way driver	2:30
67	1/30/2021 8:33	Saturday	I-44 WB	PAST I-270	Overtaken tractor trailer spilling 35,000 pounds of candy	6:59



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#	Date & Time	Day of Week	Main Street	Cross Street	Comments	Event Dur
68	1/30/2021 14:13	Saturday	MO 370 WB	PAST ST LOUIS MILLS BLVD	Multi vehicle crash involving tractor trailer and multiple injuries and barrier wall damage	2:19
69	1/30/2021 14:15	Saturday	MO 370 EB	BEFORE ST LOUIS MILLS	Multi vehicle crash involving tractor trailer and multiple injuries and barrier wall damage	2:03
70	1/31/2021 4:18	Sunday	I-64 WB	AT KINGSHIGHWAY BLVD	Multi vehicle crash involving injuries	2:28
71	2/1/2021 6:59	Monday	I-55 NB	AT BROADWAY ST	Incident involving bridge damage	2:54
72	2/4/2021 17:59	Thursday	MO 141 NB	PAST CENTURION DR	Single vehicle crash involving injuries	3:54
73	2/5/2021 11:47	Friday	I-44 WB	AT BUS 44 SIX FLAGS RD	Incident involving police activity	3:20
74	2/5/2021 11:48	Friday	I-44 EB	AT SIX FLAGS RD	Incident involving police activity	4:08
75	2/5/2021 13:04	Friday	I-270 WB	AT W FLORISSANT AVE	Multi vehicle crash	2:11
76	2/8/2021 14:12	Monday	I-44 EB	AT I-55	Single vehicle crash involving trash truck	2:17
77	2/8/2021 22:20	Monday	I-70 EB	PAST ST CHARLES ROCK RD	Single vehicle crash	2:05
78	2/9/2021 2:05	Tuesday	I-55 SB	PAST BATES ST	Multi vehicle crash involving a tractor trailer	2:52
79	2/9/2021 4:42	Tuesday	I-70 EB	TO PEARTREE LN	Incident involving spilled gravel on roadway	2:05
80	2/9/2021 5:02	Tuesday	I-70 EB	BEFORE I-270	Multi vehicle crash involving tractor trailer	4:23
81	2/9/2021 8:57	Tuesday	I-44 WB	TO I-270 NB	Multi vehicle crash (~50)	3:03
82	2/9/2021 10:56	Tuesday	I-70 EB	PAST I-270	Incident involving tractor trailer requiring mechanical assistance	4:24
83	2/9/2021 16:40	Tuesday	I-64 EB	ON RAMP FROM I-44 EB	Tractor trailer spilled load of engines	2:07
84	2/14/2021 0:43	Sunday	US 61 SB	AT RT P	Incident involving unknown police activity	4:35
85	2/14/2021 2:56	Sunday	I-64 WB	AT BOONES CROSSING	Single vehicle crash involving a fatality	2:20



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#	Date & Time	Day of Week	Main Street	Cross Street	Comments	Event Dur
86	2/14/2021 7:12	Sunday	I-270 NB	AT PAGE AVE	Tractor trailer incident requiring mechanical assistance	2:28
87	2/15/2021 2:45	Monday	I-55 SB	PAST BUTLER HILL RD	Multi vehicle crash involving a tractor trailer	2:06
88	2/15/2021 12:10	Monday	I-64 EB	PAST LAKE ST LOUIS BLVD	Single vehicle crash involving tractor trailer	2:16
89	2/15/2021 18:09	Monday	I-64 EB	PAST LINDBERGH BLVD	Single vehicle crash	2:07
90	2/16/2021 7:59	Tuesday	I-170 SB	TO I-64 EB	Incident involving stalled tractor trailer	2:18
91	2/16/2021 21:43	Tuesday	I-64 EB	AT GRAND BLVD	Water main break causing ice to develop on the highway	7:01
92	2/17/2021 4:16	Tuesday	I-64 EB	AT GRAND BLVD	Multi vehicle crash	6:46
93	2/18/2021 7:48	Thursday	N 79 MO	ROUTE C	Single vehicle crash involving fatality in Lincoln County	2:55
94	2/18/2021 16:17	Thursday	I-270 EB	BEFORE NEW FLORISSANT	Multi tractor trailer crash involving anti-freeze clean up	2:20
95	2/19/2021 11:39	Friday	I-270 EB	PAST RIVERVIEW RD	Incident on the Illinois side involving all lanes closed	2:58
96	2/19/2021 23:49	Friday	I-64	170	Multi vehicle crash involving injuries	2:12
97	2/20/2021 4:20	Saturday	MO 100 EB	OLD DES PERES ROAD	Incident involving water main break	4:52
98	2/20/2021 8:16	Saturday	I-44 EB	PAST PARK AVE	Incident involving tire in lane	2:20
99	2/20/2021 12:38	Saturday	MO 370 WB	AT MO 94	Incident involving pothole requiring maintenance repair	2:41
100	2/21/2021 1:56	Sunday	I-70 WB	PAST MO 141	Multi vehicle crash involving spilled oil and guardrail damage	4:13



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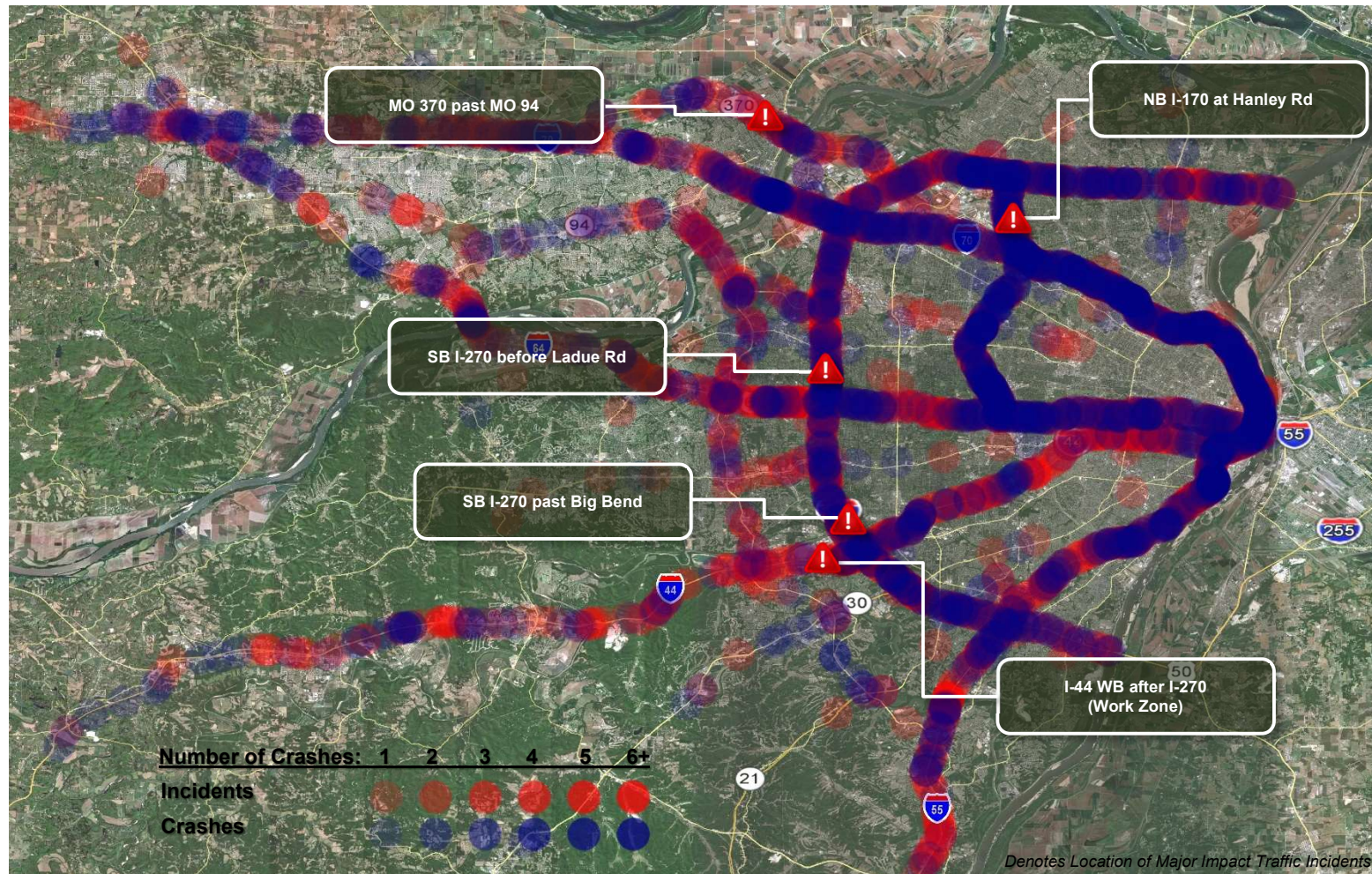
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#	Date & Time	Day of Week	Main Street	Cross Street	Comments	Event Dur
101	2/21/2021 2:19	Sunday	MO 141	I-70	Multi vehicle crash involving spilled oil and guardrail damage	3:50
102	2/21/2021 2:21	Sunday	MO 141	I-70	Multi vehicle crash involving spilled oil and guardrail damage	3:49
103	2/22/2021 1:01	Monday	MO 21	ELM	Incident involving roadway buckling	2:57
104	2/23/2021 0:07	Tuesday	I-70 WB	AT I-170	Single vehicle crash involving a fatality	2:15
105	2/25/2021 18:32	Thursday	I-70 WB	PAST ROUTE T/W	Multi vehicle crash involving injuries	2:02
106	2/27/2021 5:44	Saturday	I-44 EB	PAST MO 47	Single vehicle crash involving overturned tractor trailer	3:50
107	2/28/2021 4:59	Sunday	I-255 EB	PAST TELEGRAPH RD	Single vehicle crash involving tractor trailer spilling fuel	3:57
108	2/28/2021 5:21	Sunday	I-255 EB	ON RAMP FROM TELEGRAPH RD	Single vehicle crash involving tractor trailer spilling fuel	4:14



Dec 2020/Jan/Feb 2021 Incidents with Mobility Impact Map





Major Impact Traffic Incidents and Mitigation

1/13/2021 (Wednesday)


- Time: 7:33 AM – 3:29 PM - WB / 7:34 AM - 1:11 PM - EB
- Location: St. Charles County – MO 370 past MO 94
- Event Type: Vehicle Fire – Non - Fatal
- Estimated Initial Impact: Non-Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- Incident Details: TMC operator heard across the scanner a report of a vehicle fire. After checking the cameras, a tractor trailer was found overturned and on fire blocking all lanes both directions. The fuel tanks also ruptured causing fire in all traffic lanes. The driver of the tractor trailer had minor injuries.
- Action Taken: The On-Duty ER Supervisor, Operations Supervisor, Community Relations, CO EOC and MCS were contacted. Four Emergency Response Units were sent along with both supervisors to the scene to provide traffic control for both directions of MO 370. WB traffic was diverted to MO 94 until St Charles Co PD requested the diversion be changed to MO 141. EB traffic was diverted to Truman Blvd before the right lane was reopened. The arterial traffic engineer was contacted to adjust the traffic signals as needed at MO 370 at 141, MO 370 at Truman and MO 370 at Elm. The TMC used DMS boards along I-70, I-270, MO 141 and MO 370 to warn motorists of the closure. A floodgate was also used for Gateway Guide website. An incident alert was sent to notify District Leadership. Due to vehicle landing on top of the barrier wall, maintenance was contacted to investigate for any damages. Maintenance was also contacted to responded with sand and a sweeper to help clear the lanes after the debris was removed. DNR was contacted by the FD due to the tractor trailer losing 500 gallons of fuel. The duration of the incident was extended due to removal the trailer with extensive damage. This resulted in a traffic queue of 1.2 mile traffic queue for WB traffic and nearly a 1 mile traffic queue for EB traffic before traffic was diverted.
- Event Duration: 8 hours 8 minutes – WB/ 5 hours 37 minutes – EB




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 370	MO 370 WB past MO 94				
		Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes		07:56	07:59	08:08	08:08

 370	MO 370 EB before MO 94					
		Left Shoulder	Lane1	Lane2	Lane 3	Right Shoulder
Closed Hours/Minutes		05:37	05:37	03:28	2:08	2:08



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01/21/2021 (Thursday)


- Time: 01:52 PM – 18:05 AM ***Fatal***
- Location: St. Louis County– Southbound I-270 before Ladue Rd
- Event Type: Two Vehicle Accident
- Estimated Initial Impact: Rush Hour: 3 of 5 lanes affected equals (=) 60%
- Incident Details: The TMC operators were informed by MoDOT personnel that a TMA had been struck by a commercial pick-up truck loaded with sand and bricks. The TMA was struck just as they entered into the left lane having approached from the entrance ramp to begin their operation. The DMS boards were confirmed to be in place for the moving operation.
- Action Taken: The TMC dispatched MoDOT ER to the scene. MoDOT ER, St. Louis County PD, MSHP, Creve Coeur PD, EMS and FPD arrived on scene and blocked lanes 1, 2, and 3. PD and ER arrived on scene and was initially going to divert onto Ladue Rd, but quickly adjusted and maintained keeping the two right lanes open. (There was also an additional TMA struck at the start of the incident as it was moving in to protect the scene. This resulted in no injuries.) Also NB I-270 past Ladue RD (the opposing side) had the left two lanes closed by ER for 50 minutes due to debris in the lanes.
- TMC Operators entered the event into ATMS and activated appropriate DMS boards. An incident alert, update, and clearance was sent out to the appropriate email groups. Community Relations, the mechanic (Rico), Risk Management, Jim Connell, Alan Heathman, and the EOC was notified. Extended duration due to reconstruction and awaiting the medical examiner. Traffic queued approximately 7 miles at its peak but returned to normal twenty-six (26) minutes after the incident cleared.
- Event Duration: 04 hours 13 minutes



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	Southbound I-270 before Ladue RD	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Right Shoulder
		Closed Hours/Minutes	4:13	4:09	4:06		





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01/22/2021 (Friday)

- **Time:** 03:13 AM – 08:46 AM ***Fatal***
- **Location:** St. Louis County– Northbound I-170 exit to Hanley Road
- **Event Type:** Two Vehicle Accident
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 3 exit lanes affected equals (=) 100%
- **Incident Details:** The TMC operators received a phone call from Berley police of a vehicle accident. Two vehicle accident resulting with a fatality. The TMC dispatched MoDOT ER to the scene.
- **Action Taken:** Berkley PD, EMS and FPD arrived on scene and blocked the exit to Hanley Road. ER arrived on scene and closed the exit ramp to Hanley Road. TMC Operators entered the event into ATMS and activated appropriate DMS boards. An incident alert, update and cleared were used to advise management of the closure. The Communication Staff was notified. Extended duration due to tow and reconstruction. There was no measurable queue viewed and returned to normal after the incident cleared.
- **Event Duration:** 05 hours 33 minutes

	Northbound I-170 exit To Hanley Road	Left Shoulder	Left Exit Lane	Lane 1	Right Exit Lane	Right Shoulder
Closed Hours/Minutes		5:33	5:33	5:33	5:33	5:33



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01/30/2021 (Saturday)

- **Time:** 11:44 – 16:33
- **Location:** St Louis Co – Westbound I-44 past I-270
- **Event Type:** Overturned Tractor Trailer
- **Estimated Initial Impact:** Non Rush Hour: 4 of 4 lanes affected equals (=) 100%
- **Incident Details:** A tractor trailer carrying 35,000 lbs of candy overturned in WZ during rainy weather.
- **Action Taken:** TMC operators verified the incident via camera, entered the event into ATMS and activated appropriate DMS boards. Incident alerts were sent out to the appropriate email groups. Notifications also made to MoDOT EOC and Community Relations. ER 680 was dispatched to the scene to assist with traffic diversion onto I-270. Ultimately ER Supervisors 903 and 902 were also dispatched. Traffic Control was notified and arrived on scene to repair barrier wall damage. The left lane reopened at 09:28. Traffic queued 3 miles. Duration due to nature of the event and vehicle recovery.
- **Event Duration:** 06 hours 59 minutes

	Eastbound I-44 Past I-270	Lane 1	Lane 2	Lane 3	Lane 4
		0:56	6:59	6:59	6:59
Closed Hours/Minutes					



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02/09/2021 (Tuesday)

- **Time:** 5:02 AM – 9:25 AM -
- **Location:** St. Louis County – I-70 EB before I-270
- **Event Type:** 3+ Vehicle Accident - Non - Fatal
- **Estimated Initial Impact:** Rush Hour: 3 of 5 travel lanes affected equals (=) 60%
- **Incident Details:** TMC heard a report of an accident across the scanner EB I-70 before I-270. After checking the cameras in the area, vehicles were found in the left and two right lanes.
- **Action Taken:** An Emergency Response Unit was sent to the location to assist with traffic control. PD arrive on scene and move the vehicle in the left lane to the right lanes that were already blocked. Due to winter weather, PD requested the area be treated with salt or chemicals. With the Emergency Operation Center being activated, the dispatcher contacted maintenance responsible for the area. The TMC used DMS boards along I-70 and MO 94 to warn motorists of the lanes being closed. The duration of the incident was extended due to the wait for maintenance to arrive with salt. Unfortunately, maintenance did not arrive the salt. The incident resulted in a traffic queue of 3.6 mile traffic queue.
- **Event Duration:** 4 hours 22 minutes

	I-70 EB before I-270	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Right Shoulder
Closed Hours/Minutes		00:11	00:00	00:00	04:22	04:22	04:22



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